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OM protein - protein search, using sw model

Run on: June 2, 2005, 20:25:41 ; Search time 24 Seconds
(without alignments)
1558.299 Million cell updates/sec

Title: US-09-285-531A-2

Perfect score: 2802
Sequence: 1 MAPVYMAALAVGLELWAAA.....PSTSFLLPMGPSPARGSTG 501

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:*

- 1: /cgn2_6/ptodata/1/iaa/5A COMB.pcp.*
- 2: /cgn2_6/ptodata/1/iaa/5B COMB.pcp.*
- 3: /cgn2_6/ptodata/1/iaa/6A COMB.pcp.*
- 4: /cgn2_6/ptodata/1/iaa/6B COMB.pcp.*
- 5: /cgn2_6/ptodata/1/iaa/PCTUS COMB.pcp.*
- 6: /cgn2_6/ptodata/1/iaa/backfiles1.pcp.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1427.5	50.9	461	1	US-08-385-229-2
2	1427.5	50.9	461	2	US-08-650-000-2
3	1427.5	50.9	461	3	US-08-477-347-3
4	1427.5	50.9	461	3	US-08-476-362-2
5	1427.5	50.9	461	4	US-08-406-824A-2
6	1427.5	50.9	461	4	US-09-800-909-2
7	1427.5	50.9	461	4	US-09-758-124-2
8	1427.5	50.9	461	4	US-09-800-908-3
9	1427.5	50.9	461	4	US-09-949-016-6019
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11	1427.5	50.9	461	6	5395760-2
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13	1427.5	50.7	461	3	US-09-042-785A-7
14	1421.5	50.7	461	3	US-09-006-353A-4
15	1421.5	50.7	461	4	US-09-573-986-4
16	1421.5	50.7	461	4	US-09-896-096A-17
17	1409	50.3	257	4	US-09-579-845-10
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20	1409	50.3	518	4	US-09-579-845-3
21	1402	50.0	486	1	US-08-243-010-1
22	1308	46.7	235	4	US-09-580-235-8
23	1308	46.7	235	4	US-09-580-181-8
24	1308	46.7	235	4	US-09-102-530-8
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26	1305	46.6	235	4	US-09-580-235-4
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28	1305	46.6	235	4	US-09-580-181-4	Sequence 4, Appli
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31	1302	46.5	235	3	US-09-326-394-4	Sequence 4, Appli
32	1302	46.5	235	4	US-09-580-235-6	Sequence 6, Appli
33	1302	46.5	235	4	US-09-580-181-6	Sequence 6, Appli
34	1302	46.5	235	4	US-09-102-530-6	Sequence 6, Appli
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38	1263	45.1	227	3	US-08-974-186-48	Sequence 48, Appli
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40	1263	45.1	227	3	US-08-706-945D-134	Sequence 134, App
41	1263	45.1	227	4	US-08-577-788C-48	Sequence 48, Appli
42	935	33.4	163	4	US-09-523-323-54	Sequence 54, Appli
43	931	33.2	163	2	US-08-219-237B-5	Sequence 5, Appli
44	931	33.2	163	3	US-08-477-347-13	Sequence 13, Appli
45	931	33.2	163	3	US-08-476-862-4	Sequence 4, Appli

ALIGNMENTS

RESULT 1
US-08-385-229-2
; Sequence 2, Application US/08385229
; Patent No. 5605690
; GENERAL INFORMATION:
; APPLICANT: Jacobs, Cindy A.
; APPLICANT: Smith, Craig A.
; TITLE OF INVENTION: Method of Treating TNF-Dependent
; TITLE OF INVENTION: Inflammation Using Tumor Necrosis
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunex Corporation
; STREET: 51 University Street
; CITY: Seattle
; STATE: Washington
; COUNTRY: U.S.A.
; ZIP: 98101
; COMPUTER READABLE FORM: disk
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/385,229
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/946,236
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Wight, Christopher L.
; REGISTRATION NUMBER: 31,680
; REFERENCE/DOCKET NUMBER: 2503
; TELEPHONE: (206) 587-0430
; TELEFAX: (206) 587-0606
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 461 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-385-229-2

Query Match 50.9%; Score 1427.5; DB 1; Length 461;
Best Local Similarity 58.6%; Pred. No. 4.4e-94;
Matches 302; Conservative 30; Mismatches 96; Indels 87; Gaps 12;
QY 1 MAPVYMAALAVGLELWAAHALPAQVAFTPYEPGSTRCLREYDYDTQMCCSKSPG 60
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Db 1 MAPVAVMAALAVGLELWAAAHALPAQVAFTPYAPPEPGSTCRLREYDQTAQMCCSKCSPG 60
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Db 61 QHAKVCTKTSDDTVCDSCEDSTYTLNNWVPECLSCGSRCSDDQVETQACTREONRICTC 120
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Db 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTQPTPEPSTAPSTS 240
Qy 241 FLLPMGSPPPARGGGGGGGGGGGSDPAQ-----VAFTPYAPPEPG 282
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Db 292 -LCLOREAKVPHLPADKARGTGQPEQHQHLLITAPSSSSSSLES----- 333
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Db 334 -----SASALDRRAPTRNQPO---APGVEAS-----GAGEARAST 365
Qy 400 ETSDDVCKPCAPGTFSTSTSDICRPHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAV 459
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Qy 460 HLP---QPVSTRSQHTQPTPEPSTAPSTSFLPLMG 491
Db 420 QVPFSKEECAPRSQ--LETPTLLGSTEEKPLPLG 452
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RESULT 2

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US-08-650-000-2
; Sequence 2, Application US/08650000
; Patent No. 5945397
; GENERAL INFORMATION:
; APPLICANT: Smith, Craig A.
; APPLICANT: Goodwin, Raymond G.
; APPLICANT: Beckmann, M. Patricia
; TITLE OF INVENTION: Tumor Necrosis Factor Receptors
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunex Corporation
; STREET: 51 University Street
; CITY: Seattle
; STATE: Washington
; COUNTRY: U.S.A.
; ZIP: 98101
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/650.000
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/468,453
; FILING DATE:
; APPLICATION NUMBER: US/08/038,765
; FILING DATE:
; APPLICATION NUMBER: US 403,241
; FILING DATE: 05-SEP-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 405,370
; FILING DATE: 11-SEP-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 421,417
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; FILING DATE: 13-OCT-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 523,635
; FILING DATE: 10-MAY-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Wight, Christopher L.
; REGISTRATION NUMBER: 31,680
; REFERENCE/DOCKET NUMBER: 2501-D
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 587-0430
; TELEFAX: (206) 233-0644
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 461 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-650-000-2
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Query Match 50.9%; Score 1427.5; DB 2; Length 461;
Best Local Similarity 58.6%; Pred. No. 4.4e-94;
Matches 302; Conservative 30; Mismatches 96; Indels 87; Gaps 12;
Qy 1 MAPVAVMAALAVGLELWAAAHALPAQVAFTPYAPPEPGSTCRLREYDQTAQMCCSKCSPG 60
Db 1 MAPVAVMAALAVGLELWAAAHALPAQVAFTPYAPPEPGSTCRLREYDQTAQMCCSKCSPG 60
Qy 61 QHAKVCTKTSDDTVCDSCEDSTYTLNNWVPECLSCGSRCSDDQVETQACTREONRICTC 120
Db 61 QHAKVCTKTSDDTVCDSCEDSTYTLNNWVPECLSCGSRCSDDQVETQACTREONRICTC 120
Qy 121 RPYGWCALSKQEGRLCAPLRCRPGFGVAPPGTETSDVCKPCAPGTFSTSTSDICR 180
Db 121 RPYGWCALSKQEGRLCAPLRCRPGFGVAPPGTETSDVCKPCAPGTFSTSTSDICR 180
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Qy 241 FLLPMGSPPPARGGGGGGGGGGGSDPAQ-----VAFTPYAPPEPG 282
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Db 334 -----SASALDRRAPTRNQPO---APGVEAS-----GAGEARAST 365
Qy 400 ETSDDVCKPCAPGTFSTSTSDICRPHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAV 459
Db 366 GSSD--SSPGHGHTQVNVVTCVNVVSSSDHSSQCSQASSTMGD--TDSSPSES--PKDE 419
Qy 460 HLP---QPVSTRSQHTQPTPEPSTAPSTSFLPLMG 491
Db 420 QVPFSKEECAPRSQ--LETPTLLGSTEEKPLPLG 452
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RESULT 3

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US-08-477-347-3
; Sequence 3, Application US/08477347
; Patent No. 6232446
; GENERAL INFORMATION:
; APPLICANT: WALLACH, David
; APPLICANT: BIGDA, Jacek
; APPLICANT: BELETSKY, Igor
; APPLICANT: METT, Igor
; TITLE OF INVENTION: TNF LIGANDS
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROWDY AND NEIMARK
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STREET: 419 Seventh Street, N.W.
 CITY: Washington
 STATE: D.C.
 COUNTRY: USA
 ZIP: 20004
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/477,347
 FILING DATE:
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/115,685
 FILING DATE:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: IL 106271
 FILING DATE: 08-JUL-1993
 ATTORNEY/AGENT INFORMATION:
 NAME: Townsend, G. Kevin
 REGISTRATION NUMBER: 34,033
 REFERENCE/DOCKET NUMBER: WALLACH-10
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 202-628-5197
 TELEFAX: 202-737-3528
 TELEX: 248633
 INFORMATION FOR SEQ ID NO: 3:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 461 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-477-347-3

Query Match 50.9%; Score 1427.5; DB 3; Length 461;
 Best Local Similarity 58.6%; Pred. No. 4.4e-94;
 Matches 302; Conservative 30; Mismatches 96; Indels 87; Gaps 12;

Qy 1 MAPVAVAAALAVGLELWAAHAALPAQVAFYPYAPPGSTCRLREYYDQTAQMCCSKSPG 60
 Db 1 MAPVAVAAALAVGLELWAAHAALPAQVAFYPYAPPGSTCRLREYYDQTAQMCCSKSPG 60
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 Db 61 QHAKVCTKTSDDTVCDSCEDSTYTLQNNWVPECLSCGSRSSDQVETQACTREONRICTC 120
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 Db 121 RPYGWCALSKQEGCRLCAPLRCRPGFVARPGTETSDVVCKPCAPGTFSTNTSSDTCR 180
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 Db 181 PHQICNNVAILPGNASMDVCTSTPSTRMAPGAVHLPQVSTRSQHTOPTPEPSTARSTS 240
 Qy 241 FLPLPMGSPPARGGGGGGGGGSDPAQ-----VAFTPYAPEPG 282
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 Qy 340 SCGRSSDQVETQACTREONRICTCRPGWCALSKQEGCRLCAPLRCRPGFVARPGT 399
 Db 334 -----SASALDRRAFTRNQFQ-----APGVEAS-----GAGEARAST 365
 Qy 400 ETSDDVCKPCAPGTFSTNTSSDTCRPHQICNNVAILPGNASMDVCTSTPSTRMAPGAV 459
 Db 366 GSSD---SSPGHGTVQNVTCIVNVCSDDHSSQSSQASSTMGD---TDSSPSES---PKDE 419
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Db 420 QVPFSEKAFRSQ--LETPTLLIGSTEBKPLPG 452
 RESULT 4
 US-08-476-862-2
 ; Sequence 2, Application US/08476862
 ; Patent No. 6262239
 ; GENERAL INFORMATION:
 ; APPLICANT: WALLACH, David
 ; APPLICANT: BIGDA, Jacek
 ; APPLICANT: BELETSKY, Igor
 ; APPLICANT: METT, Igor
 ; APPLICANT: ENGELMANN, Hartmut
 ; TITLE OF INVENTION: TNF INHIBITORS
 ; NUMBER OF SEQUENCES: 8
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: BROWDY AND NEIMARK
 ; STREET: 419 Seventh Street, N.W.
 ; CITY: Washington
 ; STATE: D.C.
 ; COUNTRY: USA
 ; ZIP: 20004
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/476,862
 ; FILING DATE: 07-JUN-1995
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: IL 107267
 ; FILING DATE: 12-OCT-1993
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: IL 94039
 ; FILING DATE: 06-APR-1990
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: IL 91229
 ; FILING DATE: 06-AUG-1989
 ; APPLICATION NUMBER: IL 90339
 ; FILING DATE: 18-MAY-1989
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: BROWDY, Roger L.
 ; REGISTRATION NUMBER: 25,618
 ; REFERENCE/DOCKET NUMBER: WALLACH-12A
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 202-628-5197
 ; TELEFAX: 202-737-3528
 ; INFORMATION FOR SEQ ID NO: 2:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 461 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; US-08-476-862-2

Query Match 50.9%; Score 1427.5; DB 3; Length 461;
 Best Local Similarity 58.6%; Pred. No. 4.4e-94;
 Matches 302; Conservative 30; Mismatches 96; Indels 87; Gaps 12;

Qy 1 MAPVAVAAALAVGLELWAAHAALPAQVAFYPYAPPGSTCRLREYYDQTAQMCCSKSPG 60
 Db 1 MAPVAVAAALAVGLELWAAHAALPAQVAFYPYAPPGSTCRLREYYDQTAQMCCSKSPG 60
 Qy 61 QHAKVCTKTSDDTVCDSCEDSTYTLQNNWVPECLSCGSRSSDQVETQACTREONRICTC 120
 Db 61 QHAKVCTKTSDDTVCDSCEDSTYTLQNNWVPECLSCGSRSSDQVETQACTREONRICTC 120
 Qy 121 RPYGWCALSKQEGCRLCAPLRCRPGFVARPGTETSDVVCKPCAPGTFSTNTSSDTCR 180

Db	121	RGWYCALSKQEGCRLCAPLKRCPGFGVARGPGETSDVVCKPCAPGPTFNTTSTSDICR	180
Qy	181	PHQICNVVAIPGNASMDAVCTSTSPTRSMAPCAVHLPQVPVSTRSQHTQPTPEESTAPSTS	240
Db	181	PHQICNVVAIPGNASMDAVCTSTSPTRSMAPCAVHLPQVPVSTRSQHTQPTPEESTAPSTS	240
Qy	241	FLLPMGPPPARGGGGGGGGGGSDPAQ-----VAFTPYAPEPG	282
Db	241	FLLPMGPPPAE-----GSTGDFALPVGLIIGVVTALGILLIIGVNCVIMTQVKKP-	291
Qy	283	STCRLREYDQTAQMCCKSPG---QUAKVFCTKSTDTCVDCSDCSTYTQLMNVWPECL	339
Db	292	-LCLQREAKVPHLPADKARGTQGPQQHLLITAPSSSSSLES-----	333
Qy	340	SCGSRCSDDVETOACTEQRNRICTRPGWYCALSKQEGCRLCAPLKRCPGFGVARGPCT	399
Db	334	-----SASALDRRAPTRNQPO---APGVEAS-----GAGEARAST	365
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Db	366	GSSD--SFGGHGTQVNTVCIVNVCSSDHSQCSSQASMTGMD--TDSPPSES--PKDE	419
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RESULT 5
US-08-406-824A-2
; Sequence 2, Application US/08406824A
; Patent No. 6541610
; GENERAL INFORMATION:
; APPLICANT: SMITH, Craig A.
; TITLE OF INVENTION: TUMOR NECROSIS FACTOR-ALPHA AND BETA-RECEPTORS
; FILE REFERENCE: A-71592
; CURRENT APPLICATION NUMBER: US/08/406.824A
; CURRENT FILING DATE: 1995-03-20
; PRIOR APPLICATION NUMBER: US 08/255,849
; PRIOR FILING DATE: 1994-06-08
; PRIOR APPLICATION NUMBER: US 07/860,710
; PRIOR FILING DATE: 1992-03-30
; PRIOR APPLICATION NUMBER: US 07/523,635
; PRIOR FILING DATE: 1990-05-10
; PRIOR APPLICATION NUMBER: US 07/421,417
; PRIOR FILING DATE: 1989-10-13
; PRIOR APPLICATION NUMBER: US 07/405,370
; PRIOR FILING DATE: 1989-09-11
; PRIOR APPLICATION NUMBER: US 07/403,241
; PRIOR FILING DATE: 1989-09-05
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 461
; TYPE: PRT
; ORGANISM: Homo sapiens
US-08-406-824A-2

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Qy	181	PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTQTPPEPSTAPSTS	240
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Qy	241	FLPLMGSPPARGGGGGGGGGGGGGSDPAQ-----VAFTPYAPBP	282
Db	241	FLPLMGSPPAE-----GSTGDFALPVLGLVGTALGLLIIIGVNVNCVIMTVKKRP-	291
Qy	283	STCRLREYYDQTQAMCCKSPG--OHAKVFCIKTSDTVCDSCEDSYITQLNWNVPCL	339
Db	292	-LCLOREAAKPHLPADKARQTGQEQHLLITAPSSSSSLES-----	333
Qy	340	SCGSRCSDDVETQACTREQNRICTCRPGWYCALSKQGCRLCAPLRCRPGFVARPGT	399
Db	334	-----SASALDRAPTRNPQ-----APGVEAS-----GAGEARAST	365
Qy	400	ETSDVWCKPCAPGTFNSTSDICRPHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAV	459
Db	366	GSSD--SSPGHGTVQNVVTCIVNVYSSSDHSSQCSSQASSITMGD--TDSSES--PKDE	419
Qy	460	HLP---QPVSTRSQHTQTPPEPSTAPSTSFLPLMG	491
Db	420	QVPFSKECAFRSO--LETPELLIGSTEEKPLPLG	452

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RESULT 6
US-09-800-909-2
; Sequence 2, Application US/09800909
; Patent No. 6555111
; GENERAL INFORMATION:
; APPLICANT: WALLACH, David
; APPLICANT: BIGDA, Jacek
; APPLICANT: BELETSKI, Igor
; APPLICANT: METT, Igor
; APPLICANT: ENGELMANN, Hartmut
; TITLE OF INVENTION: TNF INHIBITORS
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROWDY AND NEIMARK
; STREET: 419 Seventh Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/800,909
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/476,862
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IL 94039
; FILING DATE: 06-APR-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IL 91229
; FILING DATE: 06-AUG-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IL 90339
; FILING DATE: 18-MAY-1989
; ATTORNEY/AGENT INFORMATION:
; NAME: BROWDY, Roger L.
; REGISTRATION NUMBER: 25,618
; REFERENCE/DOCKET NUMBER: WALLACH=12A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-628-5197
; TELEFAX: 202-737-3528
; INFORMATION FOR SEQ ID NO: 2:

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; SEQUENCE CHARACTERISTICS:
; LENGTH: 461 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-800-909-2

Query Match      50.9%; Score 1427.5; DB 4; Length 461;
Best Local Similarity 58.6%; Pred. No. 4.4e-94;
Matches 302; Conservative 30; Mismatches 96; Indels 87; Gaps 12;

QY 1 MAPVAVMAALAVGLLELWAAAHALPAQVAFTPYAPPEGSTCRLREYYDQTAQMCCSKSPG 60
DB 1 MAPVAVMAALAVGLLELWAAAHALPAQVAFTPYAPPEGSTCRLREYYDQTAQMCCSKSPG 60
QY 61 QHAKVFTKTSDDTVCDSCEDSTYTQLNNWVPECLSCGSRSSDQVETQACTREQNRICTC 120
DB 61 QHAKVFTKTSDDTVCDSCEDSTYTQLNNWVPECLSCGSRSSDQVETQACTREQNRICTC 120
QY 121 RPYGWCALSKQEGCRLCAPLRCRPGFVARPGTETSDVVKCPACPGTFSNTTSSDIDR 180
DB 121 RPYGWCALSKQEGCRLCAPLRCRPGFVARPGTETSDVVKCPACPGTFSNTTSSDIDR 180
QY 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTQPTPEPSTAPSTS 240
DB 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTQPTPEPSTAPSTS 240
QY 241 FLPLPMGPSPARGGGGGGGGGSDPAQ-----VAFTPYAPEPG 282
DB 241 FLPLPMGPSPARGGGGGGGGGSDPAQ-----VAFTPYAPEPG 282
QY 283 STCLREYYDQTAQMCCSKSPG---QHAKVFTKTSDDTVCDSCEDSTYTQLNNWVPECL 339
DB 283 STCLREYYDQTAQMCCSKSPG---QHAKVFTKTSDDTVCDSCEDSTYTQLNNWVPECL 339
QY 340 SCGSRSSDQVETQACTREQNRICTCRPGWCALSKQEGCRLCAPLRCRPGFVARPGT 399
DB 340 SCGSRSSDQVETQACTREQNRICTCRPGWCALSKQEGCRLCAPLRCRPGFVARPGT 399
QY 366 GSSD---SSPGGHGTQNVTCIVNVCSSDSSQASSTMGD---TDSSPSES--PKDE 419
DB 366 GSSD---SSPGGHGTQNVTCIVNVCSSDSSQASSTMGD---TDSSPSES--PKDE 419
QY 460 HLP---QPVSTRSQHTQPTPEPSTAPSTSFLPLMG 491
DB 460 HLP---QPVSTRSQHTQPTPEPSTAPSTSFLPLMG 491
QY 420 QVFFSKECAFRSQ--LETPETLGSTEERKPLPLG 452
DB 420 QVFFSKECAFRSQ--LETPETLGSTEERKPLPLG 452

RESULT 7
US-09-758-124-2
; Sequence 2, Application US/09758124
; Patent No. 6572852
; GENERAL INFORMATION:
; APPLICANT: SMITH, Craig A.
; APPLICANT: GOODWIN, Raymond G.
; APPLICANT: BECKMANN, M. Patricia
; TITLE OF INVENTION: TUMOR NECROSIS FACTOR-ALPHA AND -BETA RECEPTORS
; FILE REFERENCE: A7895
; CURRENT APPLICATION NUMBER: US/09/758,124
; CURRENT FILING DATE: 2001-01-12
; PRIOR APPLICATION NUMBER: 08/953,268
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 08/555,629
; PRIOR FILING DATE: 1995-11-09
; PRIOR APPLICATION NUMBER: 08/468,453
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: 08/038,765
; PRIOR FILING DATE: 1993-03-13
; PRIOR APPLICATION NUMBER: 07/523,635
; PRIOR FILING DATE: 1990-05-10
; PRIOR APPLICATION NUMBER: 07/421,417
; PRIOR FILING DATE: 1989-10-13
; PRIOR APPLICATION NUMBER: 07/405,370

; SEQUENCE CHARACTERISTICS:
; LENGTH: 461 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-800-909-2

Query Match      50.9%; Score 1427.5; DB 4; Length 461;
Best Local Similarity 58.6%; Pred. No. 4.4e-94;
Matches 302; Conservative 30; Mismatches 96; Indels 87; Gaps 12;

QY 1 MAPVAVMAALAVGLLELWAAAHALPAQVAFTPYAPPEGSTCRLREYYDQTAQMCCSKSPG 60
DB 1 MAPVAVMAALAVGLLELWAAAHALPAQVAFTPYAPPEGSTCRLREYYDQTAQMCCSKSPG 60
QY 61 QHAKVFTKTSDDTVCDSCEDSTYTQLNNWVPECLSCGSRSSDQVETQACTREQNRICTC 120
DB 61 QHAKVFTKTSDDTVCDSCEDSTYTQLNNWVPECLSCGSRSSDQVETQACTREQNRICTC 120
QY 121 RPYGWCALSKQEGCRLCAPLRCRPGFVARPGTETSDVVKCPACPGTFSNTTSSDIDR 180
DB 121 RPYGWCALSKQEGCRLCAPLRCRPGFVARPGTETSDVVKCPACPGTFSNTTSSDIDR 180
QY 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTQPTPEPSTAPSTS 240
DB 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTQPTPEPSTAPSTS 240
QY 241 FLPLPMGPSPARGGGGGGGGGSDPAQ-----VAFTPYAPEPG 282
DB 241 FLPLPMGPSPARGGGGGGGGGSDPAQ-----VAFTPYAPEPG 282
QY 283 STCLREYYDQTAQMCCSKSPG---QHAKVFTKTSDDTVCDSCEDSTYTQLNNWVPECL 339
DB 283 STCLREYYDQTAQMCCSKSPG---QHAKVFTKTSDDTVCDSCEDSTYTQLNNWVPECL 339
QY 340 SCGSRSSDQVETQACTREQNRICTCRPGWCALSKQEGCRLCAPLRCRPGFVARPGT 399
DB 340 SCGSRSSDQVETQACTREQNRICTCRPGWCALSKQEGCRLCAPLRCRPGFVARPGT 399
QY 366 GSSD---SSPGGHGTQNVTCIVNVCSSDSSQASSTMGD---TDSSPSES--PKDE 419
DB 366 GSSD---SSPGGHGTQNVTCIVNVCSSDSSQASSTMGD---TDSSPSES--PKDE 419
QY 460 HLP---QPVSTRSQHTQPTPEPSTAPSTSFLPLMG 491
DB 460 HLP---QPVSTRSQHTQPTPEPSTAPSTSFLPLMG 491
QY 420 QVFFSKECAFRSQ--LETPETLGSTEERKPLPLG 452
DB 420 QVFFSKECAFRSQ--LETPETLGSTEERKPLPLG 452

RESULT 8
US-09-800-908-3
; Sequence 3, Application US/09800908
; Patent No. 6602993
; GENERAL INFORMATION:
; APPLICANT: WALLACH, David
; APPLICANT: BIGDA, Jacek
; APPLICANT: BELETSKY, Igor
; APPLICANT: METT, Igor
; TITLE OF INVENTION: TNF LIGANDS
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROWDY AND NEIMARK
; STREET: 419 Seventh Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
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;
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/800,908
; FILING DATE: 08-Mar-2001
; CLASSIFICATION: <Unknown>
;
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/477,347
; FILING DATE: <Unknown>
; APPLICATION NUMBER: IL 106271
; FILING DATE: 08-JUL-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Townsend, G. Kevin
; REGISTRATION NUMBER: 34,033
; REFERENCE/DOCKET NUMBER: WALLACH=10
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-628-5197
; TELEFAX: 202-737-3528
; TELEX: 248633
;
; INFORMATION FOR SEQ ID NO: 3:
;
; SEQUENCE CHARACTERISTICS:
; LENGTH: 461 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
;
; MOLECULE TYPE: protein
;
; SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-800-908-3

Query Match      50.9%; Score 1427.5; DB 4; Length 461;
Best Local Similarity 58.6%; Pred. No. 4.4e-94;
Matches 302; Conservative 30; Mismatches 96; Indels 87; Gaps 12;

Qy      1 MAPVAVMAALAVGLELWAAAHALPAQVAFYAPYAPPGSTCLRREYDQTAQMCCSKSPG 60
Db      1 MAPVAVMAALAVGLELWAAAHALPAQVAFYAPYAPPGSTCLRREYDQTAQMCCSKSPG 60

Qy      61 QHAKVFCTKSDTVCDSCEDSTYQLMNNWVPECLSCGRSSDDQVETQACTREQNRICTC 120
Db      61 QHAKVFCTKSDTVCDSCEDSTYQLMNNWVPECLSCGRSSDDQVETQACTREQNRICTC 120

Qy      121 RPYGWCALSKQEGCRLCAPLRCRPGFVGARPGTETSDVCKPCAPGTFSTSTSDICR 180
Db      121 RPYGWCALSKQEGCRLCAPLRCRPGFVGARPGTETSDVCKPCAPGTFSTSTSDICR 180

Qy      181 PHQICNVVAIPGNASMDVCTSTPTRSMAPGAVHLPQPVSTRSQHTOPTPEPSTAPSTS 240
Db      181 PHQICNVVAIPGNASMDVCTSTPTRSMAPGAVHLPQPVSTRSQHTOPTPEPSTAPSTS 240

Qy      241 FLLPMGPSPAPRGGGGGGGGGGSDPAQ-----GSTGDFALPVGLIVGVTALGLLIIGVNVNCVIMTVKKKP- 291
Db      241 FLLPMGPSPAPRGGGGGGGGGGSDPAQ-----GSTGDFALPVGLIVGVTALGLLIIGVNVNCVIMTVKKKP- 291

Qy      283 STCLRREYDQTAQMCCSKSPG---QHAKVFCTKSDTVCDSCEDSTYQLMNNWVPECL 339
Db      283 STCLRREYDQTAQMCCSKSPG---QHAKVFCTKSDTVCDSCEDSTYQLMNNWVPECL 339

Qy      292 -LCLQREAKVPHLPADKARGTQGPEQQLLITAPSSSSSLES----- 333
Db      292 -LCLQREAKVPHLPADKARGTQGPEQQLLITAPSSSSSLES----- 333

Qy      340 SCGRSSDDQVETQACTREQNRICTCRPGWCALSKQEGCRLCAPLRCRPGFVGARPGT 399
Db      340 SCGRSSDDQVETQACTREQNRICTCRPGWCALSKQEGCRLCAPLRCRPGFVGARPGT 399

Qy      334 -----SASALDRAPTRNQO-----APGVEAS-----GAGEARAST 365
Db      334 -----SASALDRAPTRNQO-----APGVEAS-----GAGEARAST 365

Qy      400 ETSDDVCKPCAPGTFSTSTSDICRPHQICNVVAIPGNASMDVCTSTPTRSMAPGAV 459
Db      400 ETSDDVCKPCAPGTFSTSTSDICRPHQICNVVAIPGNASMDVCTSTPTRSMAPGAV 459

Qy      366 GSSD--SSPGHGTVQNVVTCIVNVCSDDHSSQCSQASSTMGD--TDSSPSES--PKDE 419
Db      366 GSSD--SSPGHGTVQNVVTCIVNVCSDDHSSQCSQASSTMGD--TDSSPSES--PKDE 419

Qy      460 HLP---QPVSTRSQHTOPTPEPSTAPSTSFLPLMG 491
Db      460 HLP---QPVSTRSQHTOPTPEPSTAPSTSFLPLMG 491

Qy      420 QVPFSKECAFRSQ--LETPTLLGSTEKPLPLG 452
Db      420 QVPFSKECAFRSQ--LETPTLLGSTEKPLPLG 452

RESULT 10
5395760-2
; Patent No. 5395760
; APPLICANT: SMITH, CRAIG A.; GOODWIN, RAYMOND G.; BECKMANN,
; M. PATRICIA
; TITLE OF INVENTION: DNA ENCODING TUMOR NECROSIS FACTOR-a AND
; B-RECEPTORS
; NUMBER OF SEQUENCES: 17
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/523,635
; FILING DATE: 10-MAY-1990
```

PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 421,417
; FILING DATE: 13-OCT-1989
; APPLICATION NUMBER: 405,370
; FILING DATE: 11-SEP-1989
; APPLICATION NUMBER: 403,241
; FILING DATE: 05-SEP-1989
; SEQ ID NO:2
; LENGTH: 461
5395760-2

Query Match 50.9%; Score 1427.5; DB 6; Length 461;
Best Local Similarity 58.6%; Pred. No. 4.4e-94;
Matches 302; Conservative 30; Mismatches 96; Indels 87; Gaps 12;
QY 1 MAPVAVMAALAVGLELWAAAHALPAQVAFTPYAPPGSTCRLREYYDQTAQMCCSKSPG 60
DB 1 MAPVAVMAALAVGLELWAAAHALPAQVAFTPYAPPGSTCRLREYYDQTAQMCCSKSPG 60
QY 61 QHAKVFCTKTSVTCDSCEDSTYTQLWNWVPECLSCGSRCSDDQVETQACTREQNRICTC 120
DB 61 QHAKVFCTKTSVTCDSCEDSTYTQLWNWVPECLSCGSRCSDDQVETQACTREQNRICTC 120
QY 121 RPYWCALSKQEGCRLCAPLRCRPGFVARPGTETSDVVKPCAPGTFSTSTSDICR 180
DB 121 RPYWCALSKQEGCRLCAPLRCRPGFVARPGTETSDVVKPCAPGTFSTSTSDICR 180
QY 181 PHQICNVVAIPGNASMDVCTSTSPTRSMAPGAVHLPQPVSTRSQHTOPTPEPSTAPSTS 240
DB 181 PHQICNVVAIPGNASMDVCTSTSPTRSMAPGAVHLPQPVSTRSQHTOPTPEPSTAPSTS 240
QY 241 FLPLMGSPSPARGGGGGGGGGSDPAQ-----VAFTPYAPEPG 282
DB 241 FLPLMGSPSPAE-----GSTGDFALPVGLVGTALGLLIIGVNVCMVIMTQVKKP- 291
QY 283 STCRLREYYDQTAQMCCSKSPG---QHAKVFCTKTSVTCDSCEDSTYTQLWNWVPECL 339
DB 292 -LCLQREAKVPHLPADKARGTQGEQOHLITAPSSSSSLES----- 333
QY 340 SCGSRCSDDQVETQACTREQNRICTCPGWYCALSKQEGCRLCAPLRCRPGFVARPGT 399
DB 334 -----SASALDRRAPTRNQFQ---APGVEAS-----GAGEARAST 365
QY 400 ETSDVVKPCAPGTFSTSTSDICRPHQICNVVAIPGNASMDVCTSTSPTRSMAPGAV 459
DB 366 GSSD--SSPGHGTQNVTCIVNVCSSSHSSQCSQASSTMGD--TDSFSPSES--PKDE 419
QY 460 HLP---QPVSTRSQHTOPTPEPSTAPSTSFLPLMG 491
DB 420 QVPFSKEECAFRSQ--LETPELLGSTEKPLPLG 452

RESULT 11

5395760-2
; Patent No. 5395760
; APPLICANT: SMITH, CRAIG A.; GOODWIN, RAYMOND G.; BECKMANN,
; M. PATRICIA
; TITLE OF INVENTION: DNA ENCODING TUMOR NECROSIS FACTOR-a AND
; B-RECEPTORS
; NUMBER OF SEQUENCES: 17
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/523,635
; FILING DATE: 10-MAY-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 421,417
; FILING DATE: 13-OCT-1989
; APPLICATION NUMBER: 405,370
; FILING DATE: 11-SEP-1989
; APPLICATION NUMBER: 403,241
; FILING DATE: 05-SEP-1989
; SEQ ID NO:2
; LENGTH: 461
5395760-2

Query Match 50.9%; Score 1427.5; DB 6; Length 461;
Best Local Similarity 58.6%; Pred. No. 4.4e-94;
Matches 302; Conservative 30; Mismatches 96; Indels 87; Gaps 12;
QY 1 MAPVAVMAALAVGLELWAAAHALPAQVAFTPYAPPGSTCRLREYYDQTAQMCCSKSPG 60
DB 1 MAPVAVMAALAVGLELWAAAHALPAQVAFTPYAPPGSTCRLREYYDQTAQMCCSKSPG 60
QY 61 QHAKVFCTKTSVTCDSCEDSTYTQLWNWVPECLSCGSRCSDDQVETQACTREQNRICTC 120
DB 61 QHAKVFCTKTSVTCDSCEDSTYTQLWNWVPECLSCGSRCSDDQVETQACTREQNRICTC 120
QY 121 RPYWCALSKQEGCRLCAPLRCRPGFVARPGTETSDVVKPCAPGTFSTSTSDICR 180
DB 121 RPYWCALSKQEGCRLCAPLRCRPGFVARPGTETSDVVKPCAPGTFSTSTSDICR 180
QY 181 PHQICNVVAIPGNASMDVCTSTSPTRSMAPGAVHLPQPVSTRSQHTOPTPEPSTAPSTS 240
DB 181 PHQICNVVAIPGNASMDVCTSTSPTRSMAPGAVHLPQPVSTRSQHTOPTPEPSTAPSTS 240
QY 241 FLPLMGSPSPARGGGGGGGGGSDPAQ-----VAFTPYAPEPG 282
DB 241 FLPLMGSPSPAE-----GSTGDFALPVGLVGTALGLLIIGVNVCMVIMTQVKKP- 291
QY 283 STCRLREYYDQTAQMCCSKSPG---QHAKVFCTKTSVTCDSCEDSTYTQLWNWVPECL 339
DB 292 -LCLQREAKVPHLPADKARGTQGEQOHLITAPSSSSSLES----- 333
QY 340 SCGSRCSDDQVETQACTREQNRICTCPGWYCALSKQEGCRLCAPLRCRPGFVARPGT 399
DB 334 -----SASALDRRAPTRNQFQ---APGVEAS-----GAGEARAST 365
QY 400 ETSDVVKPCAPGTFSTSTSDICRPHQICNVVAIPGNASMDVCTSTSPTRSMAPGAV 459
DB 366 GSSD--SSPGHGTQNVTCIVNVCSSSHSSQCSQASSTMGD--TDSFSPSES--PKDE 419
QY 460 HLP---QPVSTRSQHTOPTPEPSTAPSTSFLPLMG 491
DB 420 QVPFSKEECAFRSQ--LETPELLGSTEKPLPLG 452

RESULT 12

US-09-949-016-7840
; Sequence 7840, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7840
; LENGTH: 491
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-7840
Query Match 50.9%; Score 1427.5; DB 4; Length 491;
Best Local Similarity 58.8%; Pred. No. 4.8e-94;
Matches 302; Conservative 30; Mismatches 96; Indels 87; Gaps 12;
QY 1 MAPVAVMAALAVGLELWAAAHALPAQVAFTPYAPPGSTCRLREYYDQTAQMCCSKSPG 60

Db 31 MAPVAVWAALAVGLLEWAAAHALPAQVAFTPYAPPGSTCRLREYDQTAQMCCSKCPG 90
Qy 61 QHAKVCTKTSDDTVCDSCEDSTYTLNNWVPECLSCGSRCSDDQVETQACTREQNRICTC 120
Db 91 QHAKVCTKTSDDTVCDSCEDSTYTLNNWVPECLSCGSRCSDDQVETQACTREQNRICTC 150
Qy 121 RPYWYCALSKQEGCRLCAPLRCRPGFVGARPGTETSDVCKPCAPGTFSTSTSDICR 180
Db 151 RPYWYCALSKQEGCRLCAPLRCRPGFVGARPGTETSDVCKPCAPGTFSTSTSDICR 210
Qy 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTQPTPEPSTAPSTS 240
Db 211 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTQPTPEPSTAPSTS 270
Qy 241 FLLPMGSPPPARGGGGGGGGGSDPAQ-----VAFTPYAPEPG 282
Db 271 FLLPMGSPPPAE-----GSTGDFALPVGLIVGTALGLLIIGVNVNCVIMTQVKKKP- 321
Qy 283 STCLREYDQTAQMCCSKCPG---QHAKVCTKTSDDTVCDSCEDSTYTLNNWVPECL 339
Db 322 -LCLOREAKVPHLPADKARGTQGPQQHLLITAPSSSSSLES----- 363
Qy 340 SCGSRCSDDQVETQACTREQNRICTCRPGWYCALSKQEGCRLCAPLRCRPGFVGARPGT 399
Db 364 -----SASALDRRAPTRNQPO---APGVEAS-----GAGEARAST 395
Qy 400 ETSDDVCKPCAPGTFSTSTSDICRPHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAV 459
Db 396 GSSD--SSPGHGTVQNVTCIVNVCSDDHSSQCSQASSTMGD--TDSSPSES--PKDE 449
Qy 460 HLP---QPVSTRSQHTQPTPEPSTAPSTSFLPMG 491
Db 450 QVPFSKEECAPRSQ--LETPTLLGSTEEKPLPLG 482

RESULT 13

US-09-042-785A-7
; Sequence 7, Application US/09042785A
; Patent No. 6194151
; GENERAL INFORMATION:
; APPLICANT: Busfield, Samantha J
; TITLE OF INVENTION: NOVEL MOLECULES OF THE TNF RECEPTOR SUPERFAMILY
; TITLE OF INVENTION: AND USES THEREOF
; NUMBER OF SEQUENCES: 31
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD, LLP
; STREET: 28 State Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/042.785A
; FILING DATE: 17-MAR-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/938,896
; FILING DATE: 26-SEP-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Mandragoras, Amy E
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: MEI-001CP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)742-4214
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 461 amino acids
; TYPE: amino acid

; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-09-042-785A-7

Query Match 50.7%; Score 1421.5; DB 3; Length 461;
Best Local Similarity 58.4%; Pred. No. 1.2e-93;
Matches 301; Conservative 30; Mismatches 97; Indels 87; Gaps 12;

Qy 1 MAPVAVWAALAVGLLEWAAAHALPAQVAFTPYAPPGSTCRLREYDQTAQMCCSKCPG 60
Db 1 MAPVAVWAALAVGLLEWAAAHALPAQVAFTPYAPPGSTCRLREYDQTAQMCCSKCPG 60
Qy 61 QHAKVCTKTSDDTVCDSCEDSTYTLNNWVPECLSCGSRCSDDQVETQACTREQNRICTC 120
Db 61 QHAKVCTKTSDDTVCDSCEDSTYTLNNWVPECLSCGSRCSDDQVETQACTREQNRICTC 120
Qy 121 RPYWYCALSKQEGCRLCAPLRCRPGFVGARPGTETSDVCKPCAPGTFSTSTSDICR 180
Db 121 RPYWYCALSKQEGCRLCAPLRCRPGFVGARPGTETSDVCKPCAPGTFSTSTSDICR 180
Qy 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTQPTPEPSTAPSTS 240
Db 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTQPTPEPSTAPSTS 240
Qy 241 FLLPMGSPPPARGGGGGGGGGSDPAQ-----VAFTPYAPEPG 282
Db 241 FLLPMGSPPPAE-----GSTGDFALPVGLIVGTALGLLIIGVNVNCVIMTQVKKKP- 291
Qy 283 STCLREYDQTAQMCCSKCPG---QHAKVCTKTSDDTVCDSCEDSTYTLNNWVPECL 339
Db 292 -LCLOREAKVPHLPADKARGTQGPQQHLLITAPSSSSSLES----- 333
Qy 340 SCGSRCSDDQVETQACTREQNRICTCRPGWYCALSKQEGCRLCAPLRCRPGFVGARPGT 399
Db 334 -----SASALDRRAPTRNQPO---APGVEAS-----GAGEARAST 365
Qy 400 ETSDDVCKPCAPGTFSTSTSDICRPHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAV 459
Db 366 GSSD--SSPGHGTVQNVTCIVNVCSDDHSSQCSQASSTMGD--TDSSPSES--PKDE 419
Qy 460 HLP---QPVSTRSQHTQPTPEPSTAPSTSFLPMG 491
Db 420 QVPFSKEECAPRSQ--LETPTLLGSTEEKPLPLG 452

RESULT 14

US-09-006-353A-4
; Sequence 4, Application US/09006353A
; Patent No. 6261801
; GENERAL INFORMATION:
; APPLICANT: WEI, YING-FEI
; APPLICANT: YU, GUO-LIANG
; APPLICANT: GENTZ, REINER
; APPLICANT: RUBEN, STEVEN
; TITLE OF INVENTION: TUMOR NECROSIS FACTOR RECEPTOR 5
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HUMAN GENOME SCIENCES, INC.
; STREET: 9410 KEY WEST AVENUE
; CITY: ROCKVILLE
; STATE: MD
; COUNTRY: US
; ZIP: 20850
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/006.353A
; FILING DATE:
; CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:
 NAME: BROOKES, ANDERS A
 REGISTRATION NUMBER: 36,373
 REFERENCE/DOCKET NUMBER: PF341
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (301) 309-8504
 TELEFAX: (301) 309-8512
 INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 461 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-09-006-353A-4

Query Match 50.7%; Score 1421.5; DB 3; Length 461;
 Best Local Similarity 58.4%; Pred. No. 1.2e-93;
 Matches 301; Conservative 30; Mismatches 97; Indels 87; Gaps 12;

Qy 1 MAPVAVMAALAVGLELWAAAHALPAQVAFTPYAPEPGSTCLRREYDQTAQMCCSKSPG 60
 Db 1 MAPVAVMAALAVGLELWAAAHALPAQVAFTPYAPEPGSTCLRREYDQTAQMCCSKSPG 60

Qy 61 QHAKVFCTKSDTVCDSCEDSTYTLWNWVPECLSCGSRCSDDOVTQACTREQNRICTC 120
 Db 61 QHAKVFCTKSDTVCDSCEDSTYTLWNWVPECLSCGSRCSDDOVTQACTREQNRICTC 120

Qy 121 RPYWCALSKQEGCRLCAPLKRCPGFGVAPRGVETSDVVKPCAPGTFSTSTSDICR 180
 Db 121 RPYWCALSKQEGCRLCAPLKRCPGFGVAPRGVETSDVVKPCAPGTFSTSTSDICR 180

Qy 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTQPTPEPSTAPSTS 240
 Db 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTQPTPEPSTAPSTS 240

Qy 241 FLPMGSPSPARGGGGGGGGGSDPAQ-----GSTGDFALPVGLIVGVTALGLLIIGVVNCVIMTQVKKKP- 282
 Db 241 FLPMGSPSPAE-----GSTGDFALPVGLIVGVTALGLLIIGVVNCVIMTQVKKKP- 291

Qy 283 STCLRREYDQTAQMCCSKSPG---QHAKVFCTKSDTVCDSCEDSTYTLWNWVPECL 339
 Db 292 -LCLOREAKVPHLPADKARGTQGPQOHLITAPSSSSSLES----- 333

Qy 340 SCGSRCSDDOVTQACTREQNRICTCRPGWCALSKQEGCRLCAPLKRCPGFGVAPRG 399
 Db 334 -----SASALDRAPTNPQ-----APGVEAS-----GAGEARAST 365

Qy 400 ETSDVVKPCAPGTFSTSTSDICRPHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAV 459
 Db 366 GSSD--SSPGHGTVQNVTCIVNVCSDDHSSQCSQASSTMGD--TDSSPSES--PKDE 419

Qy 460 HLP---QPVSTRSQHTQPTPEPSTAPSTSFLPMG 491
 Db 420 QVPFSKEECAPRSQ--LETPTLLGSTEKPLPLG 452

RESULT 15
 US-09-573-986-4
 Sequence 4, Application US/09573986
 Patent No. 6455040
 GENERAL INFORMATION:
 APPLICANT: Wei, Ying-Fei
 APPLICANT: Ni, Jian
 APPLICANT: Gentz, Reiner
 APPLICANT: Ruben, Steven
 TITLE OF INVENTION: Tumor Necrosis Factor Receptor 5
 FILE REFERENCE: 1488.128004
 CURRENT APPLICATION NUMBER: US/09/573,986
 CURRENT FILING DATE: 2000-05-18
 NUMBER OF SEQ ID NOS: 27
 SOFTWARE: Patentin Ver. 2.1
 SEQ ID NO 4

LENGTH: 461
 TYPE: PRT
 ORGANISM: Homo sapiens
 US-09-573-986-4

Query Match 50.7%; Score 1421.5; DB 4; Length 461;
 Best Local Similarity 58.4%; Pred. No. 1.2e-93;
 Matches 301; Conservative 30; Mismatches 97; Indels 87; Gaps 12;

Qy 1 MAPVAVMAALAVGLELWAAAHALPAQVAFTPYAPEPGSTCLRREYDQTAQMCCSKSPG 60
 Db 1 MAPVAVMAALAVGLELWAAAHALPAQVAFTPYAPEPGSTCLRREYDQTAQMCCSKSPG 60

Qy 61 QHAKVFCTKSDTVCDSCEDSTYTLWNWVPECLSCGSRCSDDOVTQACTREQNRICTC 120
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Qy 121 RPYWCALSKQEGCRLCAPLKRCPGFGVAPRGVETSDVVKPCAPGTFSTSTSDICR 180
 Db 121 RPYWCALSKQEGCRLCAPLKRCPGFGVAPRGVETSDVVKPCAPGTFSTSTSDICR 180

Qy 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTQPTPEPSTAPSTS 240
 Db 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTQPTPEPSTAPSTS 240

Qy 241 FLPMGSPSPARGGGGGGGGGSDPAQ-----GSTGDFALPVGLIVGVTALGLLIIGVVNCVIMTQVKKKP- 282
 Db 241 FLPMGSPSPAE-----GSTGDFALPVGLIVGVTALGLLIIGVVNCVIMTQVKKKP- 291

Qy 283 STCLRREYDQTAQMCCSKSPG---QHAKVFCTKSDTVCDSCEDSTYTLWNWVPECL 339
 Db 292 -LCLOREAKVPHLPADKARGTQGPQOHLITAPSSSSSLES----- 333

Qy 340 SCGSRCSDDOVTQACTREQNRICTCRPGWCALSKQEGCRLCAPLKRCPGFGVAPRG 399
 Db 334 -----SASALDRAPTNPQ-----APGVEAS-----GAGEARAST 365

Qy 400 ETSDVVKPCAPGTFSTSTSDICRPHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAV 459
 Db 366 GSSD--SSPGHGTVQNVTCIVNVCSDDHSSQCSQASSTMGD--TDSSPSES--PKDE 419

Qy 460 HLP---QPVSTRSQHTQPTPEPSTAPSTSFLPMG 491
 Db 420 QVPFSKEECAPRSQ--LETPTLLGSTEKPLPLG 452

Search completed: June 2, 2005, 20:33:09
 Job time : 27 secs

Age Blank (uspto)

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: June 4, 2005, 02:58:53 ; Search time 277 Seconds
(without alignments)
8896.147 Million cell updates/sec

Title: US-09-285-531a-1
Perfect score: 1506
Sequence: 1 atggcccgctgcctgctg.....ctgaaggagcactggctag 1506

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

- Issued Patents NA:*
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 - 2: /cgn2_6/ptodata/1/ina/5B COMB.seq.*
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 - 5: /cgn2_6/ptodata/1/ina/PCTUS_COMB.seq.*
 - 6: /cgn2_6/ptodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	754.8	50.1	1557	4	US-09-579-845-2
3	754.8	50.1	1641	1	US-08-385-229-1
4	754.8	50.1	1641	2	US-08-650-000-1
5	754.8	50.1	1641	4	US-08-406-824A-1
6	754.8	50.1	1641	4	US-09-758-124-1
7	754.8	50.1	1641	6	5395760-1
8	754.8	50.1	1641	6	5395760-1
9	754.8	50.1	2224	3	US-08-477-347-2
10	754.8	50.1	2224	3	US-08-476-862-1
11	754.8	50.1	2224	4	US-09-800-909-1
12	754.8	50.1	2224	4	US-09-800-908-2
13	754.8	50.1	3677	4	US-09-949-016-1969
14	754.8	50.1	3683	3	US-09-844-634-3
15	754.8	50.1	3683	4	US-09-968-455-1
16	754.8	50.1	3683	4	US-09-949-016-148
17	699.4	46.4	705	3	US-09-580-235-7
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19	699.4	46.4	705	3	US-09-102-530-7
20	697.8	46.3	705	3	US-09-580-235-1
21	697.8	46.3	705	3	US-09-580-235-3
22	697.8	46.3	705	3	US-09-580-181-1
23	697.8	46.3	705	3	US-09-580-181-3
24	697.8	46.3	705	3	US-09-102-530-1
25	697.8	46.3	705	3	US-09-102-530-3
26	696.2	46.2	705	3	US-09-326-394-3
27	696.2	46.2	705	3	US-09-580-235-5

Sequence 5, Appli
Sequence 5, Appli
Sequence 1219, Ap
Sequence 12, Appl
Sequence 12, Appl
Sequence 11, Appl
Sequence 11, Appl
Sequence 10, Appl
Sequence 3, Appli
Patent No. 5395760
Patent No. 5395760
Sequence 6, Appli
Sequence 13, Appl
Sequence 11890, A
Sequence 13711, A
Sequence 18, Appl
Sequence 1, Appli
Sequence 1, Appli

ALIGNMENTS

RESULT 1
US-08-385-229-3
; Sequence 3, Application US/08385229
; Patent No. 5605690
; GENERAL INFORMATION:
; APPLICANT: Jacobs, Cindy A.
; APPLICANT: Smith, Craig A.
; TITLE OF INVENTION: Method of Treating TNF-Dependent
; TITLE OF INVENTION: Inflammation Using Tumor Necrosis
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Immunex Corporation
; STREET: 51 University Street
; CITY: Seattle
; STATE: Washington
; COUNTRY: U.S.A.
; ZIP: 98101
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/385,229
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/946,236
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Wright, Christopher L.
; REGISTRATION NUMBER: 31,680
; REFERENCE/DOCKET NUMBER: 2503
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 587-0430
; TELEFAX: (206) 587-0606
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1557 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: CDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; IMMEDIATE SOURCE:
; CLONE: TNFR/Fc Fusion Protein
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..1557

US-08-385-229-1					
; Sequence 1, Application US/08385229					
; Patent No. 5605690					
; GENERAL INFORMATION:					
; APPLICANT: Jacobs, Cindy A.					
; APPLICANT: Smith, Craig A.					
; TITLE OF INVENTION: Method of Treating TNF-Dependent					
; TITLE OF INVENTION: Inflammation Using Tumor Necrosis Factor Antagonists					
; NUMBER OF SEQUENCES: 5					
; CORRESPONDENCE ADDRESS:					
; ADDRESSEE: Immunex Corporation					
; STREET: 51 University Street					
; CITY: Seattle					
; STATE: Washington					
; COUNTRY: U.S.A.					
; ZIP: 98101					
; COMPUTER READABLE FORM:					
; MEDIUM TYPE: Floppy disk					
; COMPUTER: IBM PC compatible					
; OPERATING SYSTEM: PC-DOS/MS-DOS					
; SOFTWARE: Patent In Release #1.0, Version #1.25					
; CURRENT APPLICATION DATA:					
; APPLICATION NUMBER: US/08/385,229					
; FILING DATE:					
; CLASSIFICATION: 435					
; PRIOR APPLICATION DATA:					
; APPLICATION NUMBER: US/07/946,236					
; FILING DATE:					
; ATTORNEY/AGENT INFORMATION:					
; NAME: Wight, Christopher L.					
; REGISTRATION NUMBER: 31,680					
; REFERENCE/DOCKET NUMBER: 2503					
; TELECOMMUNICATION INFORMATION:					
; TELEPHONE: (206) 587-0430					
; TELEFAX: (206) 587-0606					
; INFORMATION FOR SEQ ID NO: 1:					
; SEQUENCE CHARACTERISTICS:					
; LENGTH: 1641 base pairs					
; TYPE: nucleic acid					
; STRANDEDNESS: single					
; TOPOLOGY: linear					
; MOLECULE TYPE: cDNA					
; HYPOTHETICAL: NO					
; ANTI-SENSE: NO					
; ORIGINAL SOURCE:					
; ORGANISM: Homo sapiens					
; CELL TYPE: Fibroblast					
; CELL LINE: WI-26 VA4					
; IMMEDIATE SOURCE:					
; LIBRARY: WI-26 VA4					
; CLONE: Clone 1					
; FEATURE:					
; NAME/KEY: CDS					
; LOCATION: 88..1473					
; FEATURE:					
; NAME/KEY: mat_peptide					
; LOCATION: 154..1470					
; FEATURE:					
; NAME/KEY: sig_peptide					
; LOCATION: 88..153					
; US-08-385-229-1					
Query Match 50.1%; Score 754.8; DB 1; Length 1641;					
Best Local Similarity 99.7%; Pred. No. 3.9e-183;					
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Dd	88	ATGGCGCCCGTGCCTCTGGGCGCGCTGGCGCTGGAGCTCTGGGCTGCCGCG	147		
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Dd	148	CACGCTTCGCCCGCAGTGTCATTACCTACGCCCCCGGAGCCCGGAGCACATGC	207		

Query Match	50.1%	Score	754.8	DB	4	Length	16	Gaps	0
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QY	61	CAGCGCTTCGCCGCCAGGTGGCATTTACACCTACCGGAGCCGGGAGGACATGC	207						
Db	148	CAGCGCTTCGCCGCCAGGTGGCATTTACACCTACTCGAGCAAAATGCTCGCGGGC	267						
QY	121	CGGCTCAGAGATATATAGACAGACAGCTCAGCTGGTGTGTCAGCAAAATGCTCGCGGGC	327						
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Db	268	CAACATGCAAAAGCTTCTGTATACCTCGGAGTCTTGAGCTGTGGCTCCCGCTGT	387						
QY	241	AGCACATACACCCAGCTCTGGTGGGTTCGGAGTCTTGAGCTGTGGCTTCGGCTGT	360						
Db	328	AGCACATACACCCAGCTCTAACTGGGTTCGGAGTCTTGAGCTGTGGCTTCGGCTGT	447						
QY	301	AGCTCTGACACAGGTCTACTGAAGCTGCACTCGGGAACAGAACCGCATCTGCACCTGC	447						
Db	388	AGCTCTGACCACTGAAACTCAAGCCCTGCACTCGGGAACAGAACCGCATCTGCACCTGC	447						


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Qy 181 CAACATGCAAAAGTCTTCTGTACCAAGACCTCGACACACCGTGTGTGACTCTCTGTGAGGAC 240
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Qy 241 AGCATAACACCCAGCTCTGGAACCTGGGTTCCCGAGTGTGAGCTGTGGCTCCCGCTGT 300
Db 328 AGCATAACACCCAGCTCTGGAACCTGGGTTCCCGAGTGTGAGCTGTGGCTCCCGCTGT 387
Qy 301 AGCTCTACACAGGTGGAAACTCAAGCCCTGCACCTCGGGAACAGAACCCGATCTGCACCTGC 360
Db 388 AGCTCTACACAGGTGGAAACTCAAGCCCTGCACCTCGGGAACAGAACCCGATCTGCACCTGC 447
Qy 361 AGGCCCGGCTGTACTGCGGCTGAGCAGAGAGGGGTGCGGCTGTGGCGCCCGCTG 420
Db 448 AGGCCCGGCTGTACTGCGGCTGAGCAGAGAGGGGTGCGGCTGTGGCGCCCGCTG 507
Qy 421 CGCAAGTGCCTCCCGGCTTCCGGGTGCGCAGACAGCAAGCACTGAAACATCAGAGCTGGTG 480
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Qy 481 TGCAAGCCCTGTGCTCCCGGGGACGTTCTTCCAAACAGCACTTCCATCCAGCGATATTGCGAGG 540
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Qy 661 TCCACACAGATCCCAACACAGCAGCCAACTCCAGAACCCAGCACTGCTCCAAAGCACCTCC 720
Db 748 TCCACACAGATCCCAACACAGCAGCCAACTCCAGAACCCAGCACTGCTCCAAAGCACCTCC 807
Qy 721 TTCTGTCTCCCAATGGGCCCCAGCCCCCGAGCTAGAGG 758
Db 808 TTCTGTCTCCCAATGGGCCCCAGCCCCCGAGCTAGAGG 845
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RESULT 9

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US-08-477-347-2
; Sequence 2, Application US/08477347
; Patent No. 6232446
; GENERAL INFORMATION:
; APPLICANT: WALLACH, David
; APPLICANT: BIGDA, Jacek
; APPLICANT: BELETSKY, Igor
; APPLICANT: METT, Igor
; TITLE OF INVENTION: TNF LIGANDS
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROWDY AND NEIMARK
; STREET: 419 Seventh Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/477,347
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/115,685
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IL 106271
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; FILING DATE: 08-JUL-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Townsend, G. Kevin
; REGISTRATION NUMBER: 34,033
; REFERENCE/DOCKET NUMBER: WALLACH-10
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-628-5197
; TELEFAX: 202-737-3528
; TELEX: 248633
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2224 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 90..1472
; US-08-477-347-2

Query Match 50.1%; Score 754.8; DB 3; Length 2224;
Best Local Similarity 99.7%; Pred. No. 4.2e-103;
Matches 756; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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Db 150 CAGCCTTGGCCGCCAGGTGGCATTTACACCTTACGCCCGGAGCCGGGAGCACATGC 209
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Qy 301 AGCTCTGACCAGGTGGAACTCAAGCCTGCACCTCGGAAACAGAACCCGATCTGCACCTGC 360
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Db 450 AGGCCCGGCTGTGACTCGCGCTGAGCAAGCAGAGAGGGGTGCGGCTGTGCGCGCCGCTG 509
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APPLICATION NUMBER: US/09/800,909
 FILING DATE:
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/476,862
 FILING DATE:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: IL 94039
 FILING DATE: 06-APR-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: IL 91229
 FILING DATE: 06-AUG-1989
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: IL 90339
 FILING DATE: 18-MAY-1989
 ATTORNEY/AGENT INFORMATION:
 NAME: BROWDY, Roger L.
 REGISTRATION NUMBER: 25,618
 REFERENCE/DOCKET NUMBER: WALLACH=12A
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 202-628-5197
 TELEFAX: 202-737-3528
 INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 2224 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: CDNA
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 90..1472
 US-09-800-909-1

Query Match	50.1%	Score 754.8	DB 4	Length 2224
Best Local Similarity	99.7%	Pred. No. 4.2e-183		
Matches 756	Conservative 0	Mismatches 2	Indels 0	Gaps 0
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Qy	90	ATGCGCCCGCTGCGCGCTGCGCGCGCTGCGCGCTGCGAGCTGGAGCTCTGGGCTGCGGCG	149	
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Qy	210	CGGCTCAGAGAAATATATGACACAGACAGCTCAGATGTGCTGTGAGCAAAATGCTCGCGGCG	269	
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Db	690	ACGTTCACGTCCTCCACCCGGAGTATGGCCCCAGGGGCGAGTACACTTACCCCGACCGCAGT	749
Qy	661	TCCACACGATCCCAACACACAGCGACCAACTCCAGAACCCAGCACATGCTCCAGCACCTCC	720
Db	750	TCCACACGATCCCAACACACAGCGACCAACTCCAGAACCCAGCACATGCTCCAGCACCTCC	809
Qy	721	TTCTGTCTCCCAATGGGCCCCAGCCCCCAGCTAGAGG	758
Db	810	TTCTGTCTCCCAATGGGCCCCAGCCCCCAGCTAAGG	847

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RESULT 12
US-09-800-908-2
; Sequence 2, Application US/09800908
; Patent No. 6602993
; GENERAL INFORMATION:
; APPLICANT: WALLACH, David
; BIGDA, Jacek
; BELETSKY, Igor
; METT, Igor
; TITLE OF INVENTION: TNF LIGANDS
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROWDY AND NEWMARK
; STREET: 419 Seventh Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/800,908
; FILING DATE: 08-Mar-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/477,347
; FILING DATE: <Unknown>
; APPLICATION NUMBER: IL 106271
; FILING DATE: 08-JUL-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Townsend, G. Kevin
; REGISTRATION NUMBER: 34,033
; REFERENCE/DOCKET NUMBER: WALLACH=10
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-628-5197
; TELEFAX: 202-737-3528
; TELEX: 248633
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2224 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 90..1472
; SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-800-908-2

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Query Match 50.1%; Score 754.8; DB 4;
Best Local Similarity 99.7%; Pred. No. 4.2e-183;
Length 2224;

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Qy	1	ATGCGCCGCTGCGCGTCTGGCCGCGCTGGCCGCTGGACTGGAGCTCTGGGCTCGGGCG	60						
Db	90	ATGCGCCGCTGCGCGTCTGGCCGCGCTGGCCGCTGGACTGGAGCTCTGGGCTCGGGCG	149						
Qy	61	CAGCCTTGCCCGCCGAGGTGGCATTTACACCTTAGCCCCGGAGCCCGGGAGCACATGC	120						
Db	150	CAGCCTTGCCCGCCGAGGTGGCATTTACACCTTAGCCCCGGAGCCCGGGAGCACATGC	209						
Qy	121	CGGCTCAGAGAATACTATGACACAGACGCTCAGATGTCTGCAGCAATGCTCGCCGGCG	180						
Db	210	CGGCTCAGAGNAATACTATGACACAGACGCTCAGATGTCTGCAGCAATGCTCGCCGGCG	269						
Qy	181	CAACATGCAAAAGTCTTCTGTACCAAGACCTCGGACACCGTGTGTGACTCTCTGTGAGGAC	240						
Db	270	CAACATGCAAAAGTCTTCTGTACCAAGACCTCGGACACCGTGTGTGACTCTCTGTGAGGAC	329						
Qy	241	AGCACATACCCAGCTCTGGAACCTGGGTTCGAGTGCCTTGAAGCTGTGGCTCCCGCTGT	300						
Db	330	AGCACATACCCAGCTCTGGAACCTGGGTTCGAGTGCCTTGAAGCTGTGGCTCCCGCTGT	389						
Qy	301	AGCTCTGACAGGTGGAAACTCAAGCCGTGCACTCGGGAACAGAACCGCATCTGCACCTGC	360						
Db	390	AGCTCTGACAGGTGGAAACTCAAGCCGTGCACTCGGGAACAGAACCGCATCTGCACCTGC	449						
Qy	361	AGGCCCGGCTGTACTGCGCGCTGAGCAAGCAGGAGGGGTGCCCGCTGTGCGCGCGCTG	420						
Db	450	AGGCCCGGCTGTACTGCGCGCTGAGCAAGCAGGAGGGGTGCCCGCTGTGCGCGCGCTG	509						
Qy	421	CGCAAGTGCGCCCGGGCTTCGGCGTGGCCAGACCAGAACTGAACATCAGACGTGGTG	480						
Db	510	CGCAAGTGCGCCCGGGCTTCGGCGTGGCCAGACCAGAACTGAACATCAGACGTGGTG	569						
Qy	481	TGCAAGCCCTGTGCCCCGGGACGTTCTTCCAAACAGACTTCATCCACGGATATTTGCAGG	540						
Db	570	TGCAAGCCCTGTGCCCCGGGACGTTCTTCCAAACAGACTTCATCCACGGATATTTGCAGG	629						
Qy	541	CCCCACAGATCTGTAAAGTGGTGGCCATTCCTTGGGAATGCAAGCATGGATGCACTGCG	600						
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Qy	601	ACGTTCACGTCCCCACCCGAGTATGGCCCCAGGGCAGTACACTTACCCCGACGAGTG	660						
Db	690	ACGTTCACGTCCCCACCCGAGTATGGCCCCAGGGCAGTACACTTACCCCGACGAGTG	749						
Qy	661	TCCACACGATCCCAACACACACGACGCAACTCCAGAACCCAGCACTGTCTCAAGCACTCC	720						
Db	750	TCCACACGATCCCAACACACACGACGCAACTCCAGAACCCAGCACTGTCTCAAGCACTCC	809						
Qy	721	TTCTGTCTCCCAATGGGGCCCCAGCCCCCGAGTACAGG	758						
Db	810	TTCTGTCTCCCAATGGGGCCCCAGCCCCCGAGTACAGG	847						

RESULT 13

US-09-949-016-1969
 ; Sequence 1969, Application US/09949016
 ; Patent No. 6812339
 ; GENERAL INFORMATION:
 ; APPLICANT: VENTER, J. Craig et al.
 ; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
 ; WITH HUMAN DISEASES, METHODS OF DETECTION AND USES THEREOF
 ; FILE REFERENCE: CUC01307
 ; CURRENT APPLICATION NUMBER: US/09949,016
 ; CURRENT FILING DATE: 2000-04-14
 ; PRIOR APPLICATION NUMBER: 60/241,755
 ; PRIOR FILING DATE: 2000-10-20
 ; PRIOR APPLICATION NUMBER: 60/237,768
 ; PRIOR FILING DATE: 2000-10-03
 ; PRIOR APPLICATION NUMBER: 60/231,498
 ; PRIOR FILING DATE: 2000-09-08
 ; NUMBER OF SEQ ID NOS: 207012

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; SOFTWARE: Fast-SEQ for Windows Version 4.0
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; SEQ ID NO 1969
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; LENGTH: 3677
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; TYPE: DNA
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; ORGANISM: Human
US-09-949-016-1969

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Query Match	50.1%	Score 754.8	DB 4	Length 3677
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Db	ATGGCGCCCGTCTGGCGCTCTGGCGCGCTGGCGCGTGGAGCTGGAGTCTGGGTCTGGCGG	152		
Qy 61	CAGCCTTGTCCCGCCAGGTGGCATTTACACCTTACGCCCGGAGCCGGAGACATATGC	120		
Db	CAGCCTTGTCCCGCCAGGTGGCATTTACACCTTACGCCCGGAGCCGGAGACATATGC	212		
Qy 121	CGGCTCAGAGAAATATATGACACAGACAGCTCAGATGTGTCAGCAAAATGCTCGCCGGC	180		
Db	CGGCTCAGAGAAATATATGACACAGACAGCTCAGATGTGTCAGCAAAATGCTCGCCGGC	272		
Qy 181	CAACATGCAAAAGTCTTCTGTACCAAGACCTCGGACACCGTGTGTGACTCTCTGTAGGAC	240		
Db	CAACATGCAAAAGTCTTCTGTACCAAGACCTCGGACACCGTGTGTGACTCTCTGTAGGAC	332		
Qy 241	AGCACATACACCCAGCTCTGGAACTGGTTTCCCGAGTGTGTAGCTTGGCTCCCGTGT	300		
Db	AGCACATACACCCAGCTCTGGAACTGGTTTCCCGAGTGTGTAGCTTGGCTCCCGTGT	392		
Qy 301	AGTCTTGACAGGTGGAACTCAAGCTGCACCTCGGGAACAGAACCGCATCTGCACCTGC	360		
Db	AGTCTTGACAGGTGGAACTCAAGCTGCACCTCGGGAACAGAACCGCATCTGCACCTGC	452		
Qy 361	AGGCCCGGCTTGGTACTTGGCGGCTTGAGCAAGCAGGAGGGTGC CGGCTGTGCGCGCCGCTG	420		
Db	AGGCCCGGCTTGGTACTTGGCGGCTTGAGCAAGCAGGAGGGTGC CGGCTGTGCGCGCCGCTG	512		
Qy 421	CGCAAGTGC CGCGGGCTTTCGGCGTGGCCAGACACAGGAACCTGAAACATCAGACGTGGTG	480		
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Qy 481	TGCAAGCCCTGTGCCCGGGGAGCTTCTCCAAACACGACTTTCATCCGGAATATTTCAGG	540		
Db	TGCAAGCCCTGTGCCCGGGGAGCTTCTCCAAACACGACTTTCATCCGGAATATTTCAGG	632		
Qy 541	CCCCACAGATCTGTAAACGTGGTGGCCATCCCTGGGAATGCAAGCATGGATGCAGTCTGC	600		
Db	CCCCACAGATCTGTAAACGTGGTGGCCATCCCTGGGAATGCAAGCATGGATGCAGTCTGC	692		
Qy 601	ACGTTCACGTCCCGACCCCGAGATGTGGCCCCCAGGGGCAGTACACTTACCCACGACAGTG	660		
Db	ACGTTCACGTCCCGACCCCGAGATGTGGCCCCCAGGGGCAGTACACTTACCCACGACAGTG	752		
Qy 661	TCCACACGATCCCAAACACACGACGACCAACTCCACAGAACCCAGCACTGCTCCAAGCACTCC	720		
Db	TCCACACGATCCCAAACACACGACGACCAACTCCACAGAACCCAGCACTGCTCCAAGCACTCC	812		
Qy 721	TTCTGTCTCCCAATGGGCCCGCCAGCCCCCGCCAGCTAGAGG	758		
Db	TTCTGTCTCCCAATGGGCCCGCCAGCCCCCGCCAGCTAGAGG	850		

RESULT 14
US-09-844-634-3
Sequence 3, Application US/09844634
Patent No. 6410324
GENERAL INFORMATION
APPLICANT: C. Frank Bennett
APPLICANT: Andrew T. Watt
TITLE OF INVENTION: ANTISENSE MODU
FILE REFERENCE: RTS-0216

; sequence 1, Applicant
; Patent No. 6673908

Qy	601	ACGTCCACGTCCCCACCCCGAGTATGGCCCGAGGGGAGTACACTTACCCAGCCAGTG	660
Db	690	ACGTCCACGTCCCCACCCCGAGTATGGCCCGAGGGGAGTACACTTACCCAGCCAGTG	749
Qy	661	TCCACACGATCCCAACACACGACGACCAACTCCAGAACCCAGCACTGCTCCAAGCACCTCC	720
Db	750	TCCACACGATCCCAACACACGACGACCAACTCCAGAACCCAGCACTGCTCCAAGCACCTCC	809
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Job time : 279 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: June 4, 2005, 11:52:44 ; Search time 954 Seconds
(without alignments)
9704.422 Million cell updates/sec

Title: US-09-285-531A-1

Perfect score: 1506

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Gapop 10.0 , Gapext 1.0

Searched: 5706582 seqs, 3073711274 residues

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Post-processing: Minimum Match 0%

Maximum Match 100%
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1381	91.7	2163	16	US-10-363-427-7
2	1029.4	68.4	1980	16	US-10-363-427-11
3	754.8	50.1	1386	19	US-10-775-180-14
4	754.8	50.1	1386	19	US-10-775-180-17
5	754.8	50.1	1470	17	US-10-637-864-5
6	754.8	50.1	1471	17	US-10-411-037-31
7	754.8	50.1	1471	17	US-10-411-026-31
8	754.8	50.1	1471	17	US-10-410-962-31
9	754.8	50.1	1471	17	US-10-411-049-31
10	754.8	50.1	1471	18	US-10-410-930-31
11	754.8	50.1	1471	18	US-10-410-997-31

12	754.8	50.1	1471	18	US-10-411-012-31
13	754.8	50.1	1471	18	US-10-287-994-31
14	754.8	50.1	1471	18	US-10-410-913-31
15	754.8	50.1	1471	19	US-10-410-980-31
16	754.8	50.1	1471	19	US-10-410-897-31
17	754.8	50.1	1471	19	US-10-492-261-31
18	754.8	50.1	1473	16	US-10-363-427-3
19	754.8	50.1	1557	15	US-10-313-852-2
20	754.8	50.1	1557	15	US-10-314-033-2
21	754.8	50.1	1641	9	US-09-758-124-1
22	754.8	50.1	1641	14	US-10-252-408-1
23	754.8	50.1	1641	16	US-10-420-785-1
24	754.8	50.1	2224	9	US-09-800-909-1
25	754.8	50.1	2224	9	US-09-800-908-2
26	754.8	50.1	2224	17	US-10-423-927-1
27	754.8	50.1	2224	18	US-10-632-929-2
28	754.8	50.1	3683	9	US-09-954-456-1187
29	754.8	50.1	3683	10	US-09-902-176A-49
30	754.8	50.1	3683	15	US-10-101-510-22
31	754.8	50.1	3683	17	US-10-172-118-555
32	754.8	50.1	3683	17	US-10-342-887-555
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42	697.8	46.3	705	14	US-10-243-230-1
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45	696.2	46.2	705	9	US-09-907-263-3

ALIGNMENTS

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US-10-363-427-7
; Sequence 7, Application US/10363427
; Publication No. US20030195338A1
; GENERAL INFORMATION:
; APPLICANT: MedGen Inc.
; APPLICANT: CHUNG, Yong Hoon
; APPLICANT: HAN, Ji Woong
; APPLICANT: LEE, Hye Ja
; APPLICANT: CHOI, Eun Yong
; APPLICANT: KIM, Jin Mi
; APPLICANT: YIM, Soo Bin
; TITLE OF INVENTION: Concatametric Immunoadhesion
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/363,427
; CURRENT FILING DATE: 2003-02-28
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: KopatentIn 1.71
; SEQ ID NO 7
; LENGTH: 2163
; TYPE: DNA
; ORGANISM: Homo sapiens
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; NAME/KEY: CDS
; LOCATION: (1)..(2160)
; OTHER INFORMATION: TNFR2-TNFR2-IgG
; FEATURE:
; NAME/KEY: C.region
; LOCATION: (1462)..(2163)
; OTHER INFORMATION: Hinge, CH2, CH3 region
; FEATURE:
; NAME/KEY: misc signal
; LOCATION: (511)..(519)
; OTHER INFORMATION: N-linked glycosylation site

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; NAME/KEY: misc signal
; LOCATION: (577)..(585)
; OTHER INFORMATION: N-linked glycosylation site
; FEATURE:
; NAME/KEY: misc signal
; LOCATION: (769)..(777)
; OTHER INFORMATION: N-linked glycosylation site
; FEATURE:
; NAME/KEY: misc signal
; LOCATION: (1201)..(1209)
; OTHER INFORMATION: N-linked glycosylation site
; FEATURE:
; NAME/KEY: misc signal
; LOCATION: (1267)..(1275)
; OTHER INFORMATION: N-linked glycosylation site
; FEATURE:
; NAME/KEY: primer bind
; LOCATION: (1)..(15)
; OTHER INFORMATION: PCR primer SEQ ID : 29 binding site
; FEATURE:
; NAME/KEY: primer bind
; LOCATION: (761)..(795)
; OTHER INFORMATION: PCR primer SEQ ID : 35(antisense) binding site
; FEATURE:
; NAME/KEY: primer bind
; LOCATION: (741)..(768)
; OTHER INFORMATION: PCR primer SEQ ID : 34 binding site
; FEATURE:
; NAME/KEY: primer bind
; LOCATION: (1444)..(1480)
; OTHER INFORMATION: PCR primer SEQ ID : 30(antisense) binding site
; FEATURE:
; NAME/KEY: primer bind
; LOCATION: (1444)..(1480)
; OTHER INFORMATION: PCR primer SEQ ID : 31 binding site
; FEATURE:
; NAME/KEY: primer bind
; LOCATION: (2141)..(2163)
; OTHER INFORMATION: PCR primer SEQ ID : 28(antisense) binding site
; FEATURE:
; NAME/KEY: sig_peptide
; LOCATION: (1)..(66)
; OTHER INFORMATION: signal peptide
US-10-363-427-7

Query Match          91.7%; Score 1381; DB 16; Length 2163;
Best Local Similarity 96.0%; Pred. No. 0;
Matches 1445; Conservative 0; Mismatches 15; Indels 45; Gaps 1;

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Db      1  ATGGGCGCGCTGCGCGTCTGGGCGCGCGTGGCGCTGGAGCTGGAGCTTGGGCTGCGGCG 60

Qy      61  CACGCTTGGCGCGCGCGCGCTGGAGCTTTACCCCTACGCGCGCGAGCCCGGAGCACATGC 120
Db      61  CACGCTTGGCGCGCGCGCGCTGGAGCTTTACCCCTACGCGCGCGAGCCCGGAGCACATGC 120

Qy      121  CCGGCTCAGAGAACTATGACACAGACAGCTCAGATGTGCTGCAGCAATGCTCGCGGCG 180
Db      121  CCGGCTCAGAGAACTATGACACAGACAGCTCAGATGTGCTGCAGCAATGCTCGCGGCG 180

Qy      181  CAACATGCAAAAGTCTTGTGTACCAAGACCTCGGACACCGTGTGTGATCTCTGTGAGGAC 240
Db      181  CAACATGCAAAAGTCTTGTGTACCAAGACCTCGGACACCGTGTGTGATCTCTGTGAGGAC 240

Qy      241  AGCATAACCCAGCTCTGGAATCGGTTCCCGAGTCTTGTAGCTGGCTCCCGCTGT 300
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Qy      301  AGCTCTGACCAAGTGGAACTCAAGCCTGCACTCGGGAACAGAACCCGATCTGCACCTGC 360
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; 661  TCCACAGATCCCAACACACGACGCAACTCCAGAACCCAGCACTGTCTCCAAAGCACTCC 720
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; 781  GGCTCGGCGGGGTGGCTGGATCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGAG 840
; 762  -----CGATCCAAACGCACTACCCCTACGCGCGCGCGCGCGCGCGCGCGAG 795
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; 796  CCGGGAGCACATCCCGCTCAGAGAACTATATGACAGAGCTCAGATGTGTGAGC 855
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; 856  AATGCTCGCGGGCGCAACATGCAAAAGTCTTGTACCAAGACCTGGGAGTGTGAGC 915
; 961  GACTCTGTGAGGACAGACATACACCCAGCTCTGGAACCTGGGTTCCCGAGTGTGAGC 1020
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; 1081  CGCATCTGCACCTGCAGGCGCGCTGTACTGCGCGCTGAGCAAGCAGGAGGGTGGCGG 1140
; 1036  CGCATCTGCACCTGCAGGCGCGCTGTACTGCGCGCTGAGCAAGCAGGAGGGTGGCGG 1095
; 1141  CTGTGCGCGCGCTGCGCAAGTGGCGCGCGCGCTTCCGCGTGGCGAGACAGGAACTGAA 1200
; 1096  CTGTGCGCGCGCTGCGCAAGTGGCGCGCGCTTCCGCGTGGCGAGACAGGAACTGAA 1155
; 1201  ACATCAGACGTGTGTGCAAGCCTGTGCGCGCGCGCGCGCTTCCAAACAACATTCATCC 1260
; 1156  ACATCAGACGTGTGTGCAAGCCTGTGCGCGCGCGCGCGCTTCCAAACAACATTCATCC 1215
; 1261  ACGGATATTTGCAGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1320
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Db 605 ----- 604
Qy 781 GGCTGGGGGGGGTGGCTGGGATCCCGCCAGGTGGCAATTACACCTACGCCCCGGAG 840
Db 605 -----CCCGGGAG 612
Qy 841 CCCGGAGACATGCGGGCTCAGAGAACTATGACAGACAGCTCAGATGTGCTGCAGC 900
Db 613 CCCAACACACATGCGGGCTCAGAGAACTATGACAGACAGCTCAGATGTGCTGCAGC 672
Qy 901 AAATCTCGCGGGCAACATGCAAAAGTCTTGTACCAAGACTCGGACACCGTGTGT 960
Db 673 AAATGCTCGCGGGCAACATGCAAAAGTCTTGTACCAAGACTCGGACACCGTGTGT 732
Qy 961 GACTCTGTGAGGACAGACATACACCCAGCTCTGGAACTGGGTTCCTCGAGTCTTGAGC 1020
Db 733 GACTCTGTGAGGACAGACATACACCCAGCTCTGGAACTGGGTTCCTCGAGTCTTGAGC 792
Qy 1021 TGTGGCTCCGCTGTAGCTCTGACAGGTGAAACTCAAGCTGCACTCGGGAACAGAAC 1080
Db 793 TGTGGCTCCGCTGTAGCTCTGACAGGTGAAACTCAAGCTGCACTCGGGAACAGAAC 852
Qy 1081 CGCATCTGCACCTGAGGCCCCGGCTGTACTGCGGCTGAGCAAGCAGAGGGTGC CGG 1140
Db 853 CGCATCTGCACCTGAGGCCCCGGCTGTACTGCGGCTGAGCAAGCAGAGGGTGC CGG 912
Qy 1141 CTGTGCGCGCGCTGCGAAAGTGCGCGCGCGCGCTTTCGGCGTGGCGAGACCAAGGAACTGAA 1200
Db 913 CTGTGCGCGCGCTGCGCAAGTGCGCGCGCGCGCTTTCGGCGTGGCGAGACCAAGGAACTGAA 972
Qy 1201 ACATCAGACGTGGTGTGAAGCCCTGTGCGCGGGGAGCTTCTCCAAACACACTTCATCC 1260
Db 973 ACATCAGACGTGGTGTGAAGCCCTGTGCGCGGGGAGCTTCTCCAAACACACTTCATCC 1032
Qy 1261 ACGGATATTGCAAGCCCCACACAGATCTGTAAGTGTGGCGATCCCTGGGAATGCAAGC 1320
Db 1033 ACGGATATTGCAAGCCCCACACAGATCTGTAAGTGTGGCGATCCCTGGGAATGCAAGC 1092
Qy 1321 ATGGATGAGTCTGCACTGCACTGTCACGTCCTCCACCCGAGATATGGCCCCAGGGGCACTACAC 1380
Db 1093 ATGGATGAGTCTGCACTGCACTGTCACGTCCTCCACCCGAGTATGGCCCCAGGGGCACTACAC 1152
Qy 1381 TTACCCAGCAGTCTCCACAGATCCCAACACAGCAGCACTCCACAGAACCCAGCACT 1440
Db 1153 TTACCCAGCAGTCTCCACAGATCCCAACACAGCAGCACTCCACAGAACCCAGCACT 1212
Qy 1441 GCTCAGACACTCTCTCTGCTCCCAATGGGCCCCAGCCCCCAGCTGGAAGGGAGCACT 1500
Db 1213 GCTCAGACACTCTCTCTGCTCCCAATGGGCCCCAGCCCCCAGCTGGAAGGGAGCACT 1272
Qy 1501 GGCTA 1505
Db 1273 GGCGA 1277

RESULT 3
US-10-775-180-14
; Sequence 14, Application US/10775180
; Publication No. US20050054570A1
; GENERAL INFORMATION:
; APPLICANT: Rosen, Craig A.
; APPLICANT: Haseitine, William A.
; TITLE OF INVENTION: Albumin Fusion Proteins
; FILE REFERENCE: PF574
; CURRENT APPLICATION NUMBER: US/10/775,180
; CURRENT FILING DATE: 2004-02-11
; PRIOR APPLICATION NUMBER: PCT/US02/40892
; PRIOR FILING DATE: 2002-12-23
; PRIOR APPLICATION NUMBER: 60/341,811
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: 60/360,000
; PRIOR FILING DATE: 2002-02-28

; PRIOR APPLICATION NUMBER: 60/378,950
; PRIOR FILING DATE: 2002-05-10
; PRIOR APPLICATION NUMBER: 60/398,008
; PRIOR FILING DATE: 2002-07-24
; PRIOR APPLICATION NUMBER: 60/411,355
; PRIOR FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: 60/414,984
; PRIOR FILING DATE: 2002-10-02
; PRIOR APPLICATION NUMBER: 60/417,611
; PRIOR FILING DATE: 2002-10-11
; PRIOR APPLICATION NUMBER: 60/420,246
; PRIOR FILING DATE: 2002-10-23
; PRIOR APPLICATION NUMBER: 60/423,623
; PRIOR FILING DATE: 2002-11-05
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 858
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
; LENGTH: 1386
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-775-180-14

Query Match 50.1%; Score 754.8; DB 19; Length 1386;
Best Local Similarity 99.7%; Pred. No. 2.5e-201;
Matches 756; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 ATGCGCGCGCTGCGCGTCTGGCGCGCTGGCCCTCGGACTGGAGCTCTGGGCTGCGGCG 60
Db 1 ATGCGCGCGCTGCGCGTCTGGCGCGCTGGCCCTCGGACTGGAGCTCTGGGCTGCGGCG 60

Qy 61 CACGCTTGCCTGCGCGCGAGTGGGATTTACACCTTACGCCCGGAGCCGGGAGCACATGC 120
Db 61 CACGCTTGCCTGCGCGCGAGTGGGATTTACACCTTACGCCCGGAGCCGGGAGCACATGC 120

Qy 121 CGGCTCAGAGAACTACTATGACACAGACAGCTCAGATGTGTCAGCAAAATGCTCGCCGGGC 180
Db 121 CGGCTCAGAGAACTACTATGACACAGACAGCTCAGATGTGTCAGCAAAATGCTCGCCGGGC 180

Qy 181 CAACATCAAAAGTCTTCTGTACCAAGACTCGGACACCGTGTGTGACTCTCTGTGAGGAC 240
Db 181 CAACATCAAAAGTCTTCTGTACCAAGACTCGGACACCGTGTGTGACTCTCTGTGAGGAC 240

Qy 241 AGCATATACACCCAGCTCTGGAACTGGGTTCCCGAGTCTTGAGCTTGGGCTCCCGCTGT 300
Db 241 AGCATATACACCCAGCTCTGGAACTGGGTTCCCGAGTCTTGAGCTTGGGCTCCCGCTGT 300

Qy 301 AGCTCTGACCCAGGTGGAACCTCAAGCCTGCACTCGGAAACAGAACCCGATCTGCACCTGC 360
Db 301 AGCTCTGACCCAGGTGGAACCTCAAGCCTGCACTCGGAAACAGAACCCGATCTGCACCTGC 360

Qy 361 AGGCCCCGCTGTTACTGCGCGCTGAGCAAGCAGAGGGGTGCGGCTGTGCGGCCCGCTG 420
Db 361 AGGCCCCGCTGTTACTGCGCGCTGAGCAAGCAGAGGGGTGCGGCTGTGCGGCCCGCTG 420

Qy 421 CGCAAGTGCCTGCGCGCGGCTTCCGGTGGCCAGACAGGAACTGAAACATCAGAGTGGTG 480
Db 421 CGCAAGTGCCTGCGCGCGGCTTCCGGTGGCCAGACAGGAACTGAAACATCAGAGTGGTG 480

Qy 481 TGCAAGCCTGTGTCCTGCGCGGAGCGTTCTCCAAACAGACTTTCATCCACGGATATTGCAAG 540
Db 481 TGCAAGCCTGTGTCCTGCGCGGAGCGTTCTCCAAACAGACTTTCATCCACGGATATTGCAAG 540

Qy 541 CCCCAACAGATCTGTAAAGTGGGCTATCCCTGGGAATGCAAGATGGATGGAGTGTGTC 600
Db 541 CCCCAACAGATCTGTAAAGTGGGCTATCCCTGGGAATGCAAGATGGATGGAGTGTGTC 600

Qy 601 ACCTCCAGTCCCCCAGCGAGTATGCGCCCGGAGTATGCGCCCGGAGTATGCGCCCGGAGT 660
Db 601 ACCTCCAGTCCCCCAGCGAGTATGCGCCCGGAGTATGCGCCCGGAGTATGCGCCCGGAGT 660

Qy 661 TCCACAGGATCCCAACACAGCAGCAACTCCAGAACCCAGCACTGTCTCCAAAGCACCTCC 720
Db 661 TCCACAGGATCCCAACACAGCAGCAACTCCAGAACCCAGCACTGTCTCCAAAGCACCTCC 720

Db 661 TCCACAGATCCCAACACACGACGCCAACTCCAGAACCCAGCACTGTCTCCAGCACCTCC 720
Qy 721 TTCTGTCTCCCAATGGGCCCCAGCGCCCCCAGCTAGAGG 758
Db 721 TTCTGTCTCCCAATGGGCCCCAGCGCCCCCAGCTAGAGG 758

RESULT 4
US-10-775-180-17
; Sequence 17, Application US/10775180
; Publication No. US20050054570A1
; GENERAL INFORMATION:
; APPLICANT: Rosen, Craig A.
; TITLE OF INVENTION: Albumin Fusion Proteins
; FILE REFERENCE: PF574
; CURRENT APPLICATION NUMBER: US/10/775,180
; PRIORITY FILING DATE: 2004-02-11
; PRIOR APPLICATION NUMBER: PCT/US02/40892
; PRIORITY FILING DATE: 2002-12-23
; PRIOR APPLICATION NUMBER: 60/341,811
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: 60/360,000
; PRIOR FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: 60/378,950
; PRIOR FILING DATE: 2002-05-10
; PRIOR APPLICATION NUMBER: 60/398,008
; PRIOR FILING DATE: 2002-07-24
; PRIOR APPLICATION NUMBER: 60/411,355
; PRIOR FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: 60/414,984
; PRIOR FILING DATE: 2002-10-02
; PRIOR APPLICATION NUMBER: 60/417,611
; PRIOR FILING DATE: 2002-10-11
; PRIOR APPLICATION NUMBER: 60/420,246
; PRIOR FILING DATE: 2002-10-23
; PRIOR APPLICATION NUMBER: 60/423,623
; PRIOR FILING DATE: 2002-11-05
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 858
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 17
; LENGTH: 1386
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-775-180-17

Query Match 50.1%; Score 754.8; DB 19; Length 1386;
Best Local Similarity 99.7%; Pred. No. 2.5e-201;
Matches 756; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 ATGGCGCCGCTGCGCGCTGTGGCGCGCGCTGCGACTCGGAGCTGTGGGCTGCGGCG 60
Db 1 ATGGCGCCGCTGCGCGCTGTGGCGCGCGCTGCGACTGTGGGCTGCGGCG 60

Qy 61 CAGCGCTTGGCGCCAGGTGGGCAATTACACCTTACGCCCGGAGCCGGGAGACATGC 120
Db 61 CAGCGCTTGGCGCCAGGTGGGCAATTACACCTTACGCCCGGAGCCGGGAGACATGC 120

Qy 121 CGGCTCAGAGAACTATGACACAGAGCTCAGATGTGTGTCAGCAAAATGCTCGCGGCG 180
Db 121 CGGCTCAGAGAACTATGACACAGAGCTCAGATGTGTGTCAGCAAAATGCTCGCGGCG 180

Qy 181 CAACATCAAAAGTCTTCTGTATCAAGACCTCGGACACCGTGTGTGACTCTCTGTGAGGAC 240
Db 181 CAACATCAAAAGTCTTCTGTATCAAGACCTCGGACACCGTGTGTGACTCTCTGTGAGGAC 240

Qy 241 AGACATACACCCAGCTCTGGAATCGGTTCCGAGTGTGAGCTGTGGCTCCCGCTGT 300
Db 241 AGACATACACCCAGCTCTGGAATCGGTTCCGAGTGTGAGCTGTGGCTCCCGCTGT 300

Qy 301 AGCTCTCACCAGGTGGAACTCAAGCCTGCACTCGGGAACAGAACCCGATCTGCACCTGC 360

Db 301 AGCTCTCACCAGGTGGAACTCAAGCCTGCACTCGGGAACAGAACCCGATCTGCACCTGC 360
Qy 361 AGGCCCGGCTGTACTCGCGCTGAGCAAGCAGAGAGGGTGC CGGCTGTGTGCGCGCGCTG 420
Db 361 AGGCCCGGCTGTACTCGCGCTGAGCAAGCAGAGAGGGTGC CGGCTGTGTGCGCGCGCTG 420

Qy 421 CGCAAGTCCCGCCCGGGCTTTCGGCGTGGCCAGACAGGAACTGAAACATCAGACGTGGTG 480
Db 421 CGCAAGTCCCGCCCGGGCTTTCGGCGTGGCCAGACAGGAACTGAAACATCAGACGTGGTG 480

Qy 481 TGCAGGCCCTGTGCCCCCGGGAGCTTCTCCAAACAGACTTCATCCAGGATATTTTCAGG 540
Db 481 TGCAGGCCCTGTGCCCCCGGGAGCTTCTCCAAACAGACTTCATCCAGGATATTTTCAGG 540

Qy 541 CCCACCAGATCTGTAACTGTGGTGGCCATCCCTGGGAATGCAAGCATGGATGCACTTGC 600
Db 541 CCCACCAGATCTGTAACTGTGGTGGCCATCCCTGGGAATGCAAGCATGGATGCACTTGC 600

Qy 601 ACGTCCACAGTCCCGCCAGGTATGGCCCCAGGGGAGTACACTTACCCAGCCAGTG 660
Db 601 ACGTCCACAGTCCCGCCAGGTATGGCCCCAGGGGAGTACACTTACCCAGCCAGTG 660

Qy 661 TCCACAGGATCCCAACACAGCAGCCAACTCCAGAACCCAGCACTGTCTCCAGCACCTCC 720
Db 661 TCCACAGGATCCCAACACAGCAGCCAACTCCAGAACCCAGCACTGTCTCCAGCACCTCC 720

Qy 721 TTCTGTCTCCCAATGGGCCCCAGCGCCCCCAGCTAGAGG 758
Db 721 TTCTGTCTCCCAATGGGCCCCAGCGCCCCCAGCTAGAGG 758

RESULT 5
US-10-637-864-5
; Sequence 5, Application US/10637864
; Publication No. US20040082531A1
; GENERAL INFORMATION:
; APPLICANT: Viomed Co., Ltd.
; TITLE OF INVENTION: Electro-Gene Therapy of Arthritis by Using an Expression Plasmid
; TITLE OF INVENTION: Encoding the Soluble p75 Tumor Necrosis Factor Receptor-Pc Fusio
; TITLE OF INVENTION: Protein
; FILE REFERENCE: PCA20854/VML/US
; CURRENT APPLICATION NUMBER: US/10/637,864
; CURRENT FILING DATE: 2003-08-08
; PRIOR APPLICATION NUMBER: US60/402,399
; PRIOR FILING DATE: 2002-08-09
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: Kopatentin 1.71
; SEQ ID NO 5
; LENGTH: 1470
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: sTNFR:Pc fusion gene of soluble p75 TNFR and Fc portion of human
US-10-637-864-5

Query Match 50.1%; Score 754.8; DB 17; Length 1470;
Best Local Similarity 99.7%; Pred. No. 2.6e-201;
Matches 756; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 ATGGCGCCGCTGCGCGCTGTGGCGCGCGCTGCGACTGTGGGCTGTGGGCTGCGGCG 60
Db 1 ATGGCGCCGCTGCGCGCTGTGGCGCGCGCTGCGACTGTGGGCTGTGGGCTGCGGCG 60

Qy 61 CAGCGCTTGGCGCCAGGTGGGCAATTACACCTTACGCCCGGAGCCGGGAGACATGC 120
Db 61 CAGCGCTTGGCGCCAGGTGGGCAATTACACCTTACGCCCGGAGCCGGGAGACATGC 120

Qy 121 CGGCTCAGAGAACTATGACACAGAGCTCAGATGTGTGTCAGCAAAATGCTCGCGGCG 180
Db 121 CGGCTCAGAGAACTATGACACAGAGCTCAGATGTGTGTCAGCAAAATGCTCGCGGCG 180

Qy 181 CAACATCAAAAGTCTTCTGTATCAAGACCTCGGACACCGTGTGTGACTCTCTGTGAGGAC 240

Db 181 CAACATGCAAAAGTCTTCTGTACCAAGACCTCGGACACCGTGTGTGACTCCTGTGAGGAC 240
Qy 241 AGCATAACACCCAGCTCTGGAACCTGGGTTCGCCAGTCTTGGAGTGTGGCTCCCGCTGT 300
Db 241 AGCATAACACCCAGCTCTGGAACCTGGGTTCGCCAGTCTTGGAGTGTGGCTCCCGCTGT 300
Qy 301 AGCTGTGACCAAGTGTGAACCTCAAGCTTGCACTCGGGAACAGAACCGCATCTGCACCTGC 360
Db 301 AGCTGTGACCAAGTGTGAACCTCAAGCTTGCACTCGGGAACAGAACCGCATCTGCACCTGC 360
Qy 361 AGGCCCGCTGTGTACTGCGCTGAGCAAGCAGAGAGGGTGCCTGGCTGTGCGCCGCTG 420
Db 361 AGGCCCGCTGTGTACTGCGCTGAGCAAGCAGAGAGGGTGCCTGGCTGTGCGCCGCTG 420
Qy 421 CGCAAGTCCCGCCGGGCTTCGGCGTGGCCAGACAGGAACTGAAACATCAGACGTGGTG 480
Db 421 CGCAAGTCCCGCCGGGCTTCGGCGTGGCCAGACAGGAACTGAAACATCAGACGTGGTG 480
Qy 481 TCGAAGCCTGTGCCCCGGGACGTTCTCCAAACACGACTTCCATCCACGGATATTGCAAG 540
Db 481 TCGAAGCCTGTGCCCCGGGACGTTCTCCAAACACGACTTCCATCCACGGATATTGCAAG 540
Qy 541 CCCACACAGATCTGTAAAGTGTGGCCATCCCTGGGAATGCAAGCATGGATGCACTGTC 600
Db 541 CCCACACAGATCTGTAAAGTGTGGCCATCCCTGGGAATGCAAGCATGGATGCACTGTC 600
Qy 601 ACGTCCAGTCCCGCCAGGAGTATGCGCCAGGAGTATGCGCCAGGAGGAGTACACTTACCCAGCCAGTG 660
Db 601 ACGTCCAGTCCCGCCAGGAGTATGCGCCAGGAGTATGCGCCAGGAGGAGTACACTTACCCAGCCAGTG 660
Qy 661 TCCACACAGATCCCAACACACGAGCCAACTCCAGAACCCAGCACTGCTCCAAAGCACCTCC 720
Db 661 TCCACACAGATCCCAACACACGAGCCAACTCCAGAACCCAGCACTGCTCCAAAGCACCTCC 720
Qy 721 TTCCTGTCTCCCAATGGGCCCCAGCCCCCAGCTAGAGG 758
Db 721 TTCCTGTCTCCCAATGGGCCCCAGCCCCCAGCTAGAGG 758

RESULT 6

US-10-411-037-31
; Sequence 31, Application US/10411037
; Publication No. US20040043446A1
; GENERAL INFORMATION:
; APPLICANT: Neose Technologies, Inc.
; APPLICANT: Defrees, Shawn
; APPLICANT: Zopf, David
; APPLICANT: Bayer, Robert
; APPLICANT: Hakes, David
; APPLICANT: Chen, Xi
; APPLICANT: Bove, Caryn
; TITLE OF INVENTION: ALPHA GALACTOSIDASE A: REMODELING AND GLYCOCONJUGATION OF ALPHA
; FILE OF INVENTION: GALACTOSIDASE A
; FILE REFERENCE: 040853-01-5082
; CURRENT APPLICATION NUMBER: US/10/411,037
; PRIORITY FILING DATE: 2003-04-09
; PRIOR APPLICATION NUMBER: US 60/328,523
; PRIOR FILING DATE: 2001-10-10
; PRIOR APPLICATION NUMBER: US 60/344,692
; PRIOR FILING DATE: 2001-10-19
; PRIOR APPLICATION NUMBER: US 60/387,292
; PRIOR FILING DATE: 2002-06-07
; PRIOR APPLICATION NUMBER: US 60/391,777
; PRIOR FILING DATE: 2002-06-25
; PRIOR APPLICATION NUMBER: US 60/396,594
; PRIOR FILING DATE: 2002-07-17
; PRIOR APPLICATION NUMBER: US 60/404,249
; PRIOR FILING DATE: 2002-08-16
; PRIOR APPLICATION NUMBER: US 60/407,527
; PRIOR FILING DATE: 2002-08-28
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 31

; LENGTH: 1471
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-411-037-31
Query Match 50.1%; Score 754.8; DB 17; Length 1471;
Best Local Similarity 99.7%; Pred. No. 2.6e-201;
Matches 756; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 1 ATGGCGCCGCTGCGCGCTCTGGGCGCGCTGGCGCTGGAGCTCTGGGCTTGGCGGCG 60
Db 1 ATGGCGCCGCTGCGCGCTCTGGGCGCGCTGGCGCTGGAGCTCTGGGCTTGGCGGCG 60
Qy 61 CACGCTTGGCCCGCCAGGTGGCAATTTACACCTTACGCCCGGAGCCCGGAGCACATGC 120
Db 61 CACGCTTGGCCCGCCAGGTGGCAATTTACACCTTACGCCCGGAGCCCGGAGCACATGC 120
Qy 121 CGGCTCAGAGAATACTATGACACAGACAGCTCAGATGTGTGTCAGCAAAATGCTCGCCGGGC 180
Db 121 CGGCTCAGAGAATACTATGACACAGACAGCTCAGATGTGTGTCAGCAAAATGCTCGCCGGGC 180
Qy 181 CAACATGCAAAAGTCTTCTGTACCAAGACCTCGGACACCGTGTGTGACTCTGTGTGAGGAC 240
Db 181 CAACATGCAAAAGTCTTCTGTACCAAGACCTCGGACACCGTGTGTGACTCTGTGTGAGGAC 240
Qy 241 AGCATAACACCCAGCTCTGGAACCTGGGTTCGCCAGTCTTGGCTTCCCGCTGT 300
Db 241 AGCATAACACCCAGCTCTGGAACCTGGGTTCGCCAGTCTTGGCTTCCCGCTGT 300
Qy 301 AGCTCTGACCAAGTGTGAAACTCAAGCCTGCACTCGGGAACAGAACCCGATCTGCACCTGC 360
Db 301 AGCTCTGACCAAGTGTGAAACTCAAGCCTGCACTCGGGAACAGAACCCGATCTGCACCTGC 360
Qy 361 AGGCCCGCTGTGTACTGCGCGCTGAGCAAGCAGAGGGGTGCGGCTGTGCGCCGCTG 420
Db 361 AGGCCCGCTGTGTACTGCGCGCTGAGCAAGCAGAGGGGTGCGGCTGTGCGCCGCTG 420
Qy 421 CGCAAGTGGCCCGCGGCTTCGGCGTGGCCAGACCGAGAACTGAAACATCAGACGTGGTG 480
Db 421 CGCAAGTGGCCCGCGGCTTCGGCGTGGCCAGACCGAGAACTGAAACATCAGACGTGGTG 480
Qy 481 TCGAAGCCCTGTGCCCCGGGACGTTCTCCAAACAGACTTCCATCCACGGATATTGCAAG 540
Db 481 TCGAAGCCCTGTGCCCCGGGACGTTCTCCAAACAGACTTCCATCCACGGATATTGCAAG 540
Qy 541 CCCACACAGATCTGTAAAGTGTGGCCATCCCTGGGAATGCAAGCATGGATGCACTGTC 600
Db 541 CCCACACAGATCTGTAAAGTGTGGCCATCCCTGGGAATGCAAGCATGGATGCACTGTC 600
Qy 601 ACGTCCAGTCCCGCCAGGAGTATGCGCCAGGAGTATGCGCCAGGAGGAGTACACTTACCCAGCCAGTG 660
Db 601 ACGTCCAGTCCCGCCAGGAGTATGCGCCAGGAGTATGCGCCAGGAGGAGTACACTTACCCAGCCAGTG 660
Qy 661 TCCACACAGATCCCAACACACAGCAGCCAACTCCAGAACCCAGCACTGCTCCAAAGCACCTCC 720
Db 661 TCCACACAGATCCCAACACACAGCAGCCAACTCCAGAACCCAGCACTGCTCCAAAGCACCTCC 720
Qy 721 TTCCTGTCTCCCAATGGGCCCCAGCCCCCAGCTAGAGG 758
Db 721 TTCCTGTCTCCCAATGGGCCCCAGCCCCCAGCTAGAGG 758

RESULT 7

US-10-411-026-31
; Sequence 31, Application US/10411026
; Publication No. US20040063911A1
; GENERAL INFORMATION:
; APPLICANT: Neose Technologies, Inc.
; APPLICANT: Defrees, Shawn
; APPLICANT: Zopf, David
; APPLICANT: Bayer, Robert
; APPLICANT: Hakes, David
; APPLICANT: Chen, Xi

/ CURRENT AFFILIATION NUMBER: US10/4107562									
/ CURRENT FILING DATE: 2003-04-09									
/ PRIOR APPLICATION NUMBER: US 60/328,523									
/ PRIOR FILING DATE: 2001-10-10									
/ PRIOR APPLICATION NUMBER: US 60/344,692									
/ PRIOR FILING DATE: 2001-10-19									
/ PRIOR APPLICATION NUMBER: US 60/387,292									
/ PRIOR FILING DATE: 2002-06-07									
/ PRIOR APPLICATION NUMBER: US 60/391,777									
/ PRIOR FILING DATE: 2002-06-25									
/ PRIOR APPLICATION NUMBER: US 60/396,594									
/ PRIOR FILING DATE: 2002-07-17									
/ PRIOR APPLICATION NUMBER: US 60/404,249									
/ PRIOR FILING DATE: 2002-08-16									
/ PRIOR APPLICATION NUMBER: US 60/407,527									
/ PRIOR FILING DATE: 2002-08-28									
/ NUMBER OF SEQ ID NOS: 75									
/ SOFTWARE: PatentIn version 3.2									
/ SEQ ID NO 31									
/ LENGTH: 1471									
/ TYPE: DNA									
/ ORGANISM: Homo sapiens									
US-10-410-962-31									
Query Match 50.1%; Score 754.8; DB 17; Length 1471;									
Best Local Similarity 99.7%; Pred. No. 2.6e-201;									
Matches 756; Conservative 0; Mismatches 2; Indels 0; Gaps 0									
Qy	1	ATGGCGCCCGCTCGCGCTGCGCGCGCGCTGCGCGCTCGGACTGGAGCTCTGGGCTCGGGCG	60						
Db	1	ATGGCGCCCGTGC CGCTGCGCGCGCTGCGCGCGCTGCGACTGGAGCTCTGGGCTCGGGCG	60						
Qy	61	CAGCCCTTGCCCGCCAGGTGGCAATTACACCTTACGCCCGGAGCCCGGAGACACATGC	120						
Db	61	CAGCCCTTGCCCGCCAGGTGGCAATTACACCTTACGCCCGGAGCCCGGAGACACATGC	120						
Qy	121	CGGCTCAGAGTAATACTATGACACAGACTCAGATGTCTCGACAAATGCTCGCCGGGC	180						
Db	121	CGGCTCAGAGTAATACTATGACACAGACTCAGATGTCTCGACAAATGCTCGCCGGGC	180						
Qy	181	CAACATGCAAAAGTCTTCTGTATCCAAAGACCTCGGACACCGTGTGTGACTCTCTGTGAGGAC	240						
Db	181	CAACATGCAAAAGTCTTCTGTATCCAAAGACCTCGGACACCGTGTGTGACTCTCTGTGAGGAC	240						
Qy	241	AGCACATACACCCAGCTCTGGAACTGGGTTCCGAGTGTCTTGTAGCTGTGGCTCCCGCTGT	300						
Db	241	AGCACATACACCCAGCTCTGGAACTGGGTTCCGAGTGTCTTGTAGCTGTGGCTCCCGCTGT	300						

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QY 301 AGCTCTGACCGTGGAACTCAAGCTGCACTCGGGAACAGAACCGCATCTGCACCTGC 360
Db |||||
QY 301 AGCTCTGACCGTGGAACTCAAGCTGCACTCGGGAACAGAACCGCATCTGCACCTGC 360
Db |||||
QY 361 AGGCCGCGTGTACTTGGCGCTGAGCAAGCAGAGAGGGGTGCCGCTGTGGCGCGCGCTG 420
Db |||||
QY 361 AGGCCGCGTGTACTTGGCGCTGAGCAAGCAGAGAGGGGTGCCGCTGTGGCGCGCGCTG 420
Db |||||
QY 421 CGAAGTGC CGGCCGCTTGGCGCTGCGCAGACAGGAACTGAAACATCAGACGTGGTG 480
Db |||||
QY 421 CGAAGTGC CGGCCGCTTGGCGCTGCGCAGACAGGAACTGAAACATCAGACGTGGTG 480
Db |||||
QY 481 TGCAGAGCTGTGCCCGGGGACGTTCTCCACACAGCTTATCCACGGATATTGACAG 540
Db |||||
QY 481 TGCAGAGCTGTGCCCGGGGACGTTCTCCACACAGCTTATCCACGGATATTGACAG 540
Db |||||
QY 541 CCCACACAGATCTGTAAGCTGTGGTGGCCATCCCTGGGAATGCAAGCATGGATGCACTTGC 600
Db |||||
QY 541 CCCACACAGATCTGTAAGCTGTGGTGGCCATCCCTGGGAATGCAAGCATGGATGCACTTGC 600
Db |||||
QY 601 AGCTCCAGTCCCCCAGCGAGTATGCCCCAGGGGAGTACACTTACCCAGCCAGTG 660
Db |||||
QY 601 AGCTCCAGTCCCCCAGCGAGTATGCCCCAGGGGAGTACACTTACCCAGCCAGTG 660
Db |||||
QY 661 TCCACAGATCCCAACACACGCGCAACTCCAGAACCCAGCACTGCTCCAGCACCTCC 720
Db |||||
QY 661 TCCACAGATCCCAACACACGCGCAACTCCAGAACCCAGCACTGCTCCAGCACCTCC 720
Db |||||
QY 721 TTCCTGCTCCCAATGGGCCCCAGCCCCCAGCTAGAGG 758
Db |||||
QY 721 TTCCTGCTCCCAATGGGCCCCAGCCCCCAGCTAGAGG 758
Db |||||
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RESULT 9

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US-10-411-049-31
; Sequence 31, Application US/10411049
; Publication No. US20040082026A1
; GENERAL INFORMATION:
; APPLICANT: Neose Technologies, Inc.
; APPLICANT: DeFrees, Shawn
; APPLICANT: Zopf, David
; APPLICANT: Bayer, Robert
; APPLICANT: Hakes, David
; APPLICANT: Chen, Xi
; APPLICANT: Bove, Caryn
; TITLE OF INVENTION: INTERFERON ALPHA: REMODELING AND GLYCOCONJUGATION OF INTERFERON
; FILE REFERENCE: 040853-01-5055
; CURRENT APPLICATION NUMBER: US/10/411,049
; CURRENT FILING DATE: 2003-04-09
; PRIOR APPLICATION NUMBER: US 60/328,523
; PRIOR FILING DATE: 2001-10-10
; PRIOR APPLICATION NUMBER: US 60/344,692
; PRIOR FILING DATE: 2001-10-19
; PRIOR APPLICATION NUMBER: US 60/387,292
; PRIOR FILING DATE: 2002-06-07
; PRIOR APPLICATION NUMBER: US 60/391,777
; PRIOR FILING DATE: 2002-06-25
; PRIOR APPLICATION NUMBER: US 60/396,594
; PRIOR FILING DATE: 2002-07-17
; PRIOR APPLICATION NUMBER: US 60/404,249
; PRIOR FILING DATE: 2002-08-16
; PRIOR APPLICATION NUMBER: US 60/407,527
; PRIOR FILING DATE: 2002-08-28
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 31
; LENGTH: 1471
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-411-049-31
```

```
Query Match 50.1%; Score 754.8; DB 17; Length 1471;
Best Local Similarity 99.7%; Pred. No. 2.6e-201;
Matches 756; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 ATGCGCCCGTGCCTGTGGCGCGCTGCGCTCGGACTTGGAGCTCTGGGCTTCCGCG 60
Db |||||
QY 1 ATGCGCCCGTGCCTGTGGCGCGCTGCGCTCGGACTTGGAGCTCTGGGCTTCCGCG 60
Db |||||
QY 61 CACGCTTGC CGGCCCGCAGGTGGCAATTTACACCTTACGCCCGGAGCCCGGAGACATGC 120
Db |||||
QY 61 CACGCTTGC CGGCCCGCAGGTGGCAATTTACACCTTACGCCCGGAGCCCGGAGACATGC 120
Db |||||
QY 121 CGGCTCAGAGAACTACTATGACACAGACAGCTCAGATGTGCTCAGCAAAATGCTCGCCGGC 180
Db |||||
QY 121 CGGCTCAGAGAACTACTATGACACAGACAGCTCAGATGTGCTCAGCAAAATGCTCGCCGGC 180
Db |||||
QY 181 CAACATGCAAAAGCTTCTGTATCAAGAACCCTCGGACACCGTGTGTGACTCTCTGTGAGGAC 240
Db |||||
QY 181 CAACATGCAAAAGCTTCTGTATCAAGAACCCTCGGACACCGTGTGTGACTCTCTGTGAGGAC 240
Db |||||
QY 241 AGCACAATACACCCAGCTCTGGAACCTGGGTTCCCGAGTGTCTTGAAGCTTGGCTCCCGCTGT 300
Db |||||
QY 241 AGCACAATACACCCAGCTCTGGAACCTGGGTTCCCGAGTGTCTTGAAGCTTGGCTCCCGCTGT 300
Db |||||
QY 301 AGCTCTGACAGGTGGAAACTCAAGCTGCACTCGGAAACAGAACCGCATCTGCACCTGC 360
Db |||||
QY 301 AGCTCTGACAGGTGGAAACTCAAGCTGCACTCGGAAACAGAACCGCATCTGCACCTGC 360
Db |||||
QY 361 AGGCCGCGTGTACTTGGCGCTGAGCAAGCAGAGAGGGGTGCCGCTGTGGCGCGCGCTG 420
Db |||||
QY 421 CGCAAGTGC CGGCCCGCGGCTTCCGCGTGGCAAGCAGAGAGGGGTGCCGCTGTGGCGCGCGCTG 420
Db |||||
QY 421 CGCAAGTGC CGGCCCGCGGCTTCCGCGTGGCAAGCAGAGAGGGGTGCCGCTGTGGCGCGCGCTG 420
Db |||||
QY 481 TGCAAGCCTGTGTCGCCCGGGGACGTTCTCCAAACAGCTTCCACCGATATTGACAGG 540
Db |||||
QY 481 TGCAAGCCTGTGTCGCCCGGGGACGTTCTCCAAACAGCTTCCACCGATATTGACAGG 540
Db |||||
QY 541 CCCCACAGATCTGTAAAGCTGTGGTGGCCATCCCTGGGAATGCAAGCATGGATGCACTTGC 600
Db |||||
QY 541 CCCCACAGATCTGTAAAGCTGTGGTGGCCATCCCTGGGAATGCAAGCATGGATGCACTTGC 600
Db |||||
QY 601 ACCTTCAAGTCCCCCAGCGAGTATGCCCCAGGGGAGTACACTTACCCAGCCAGTG 660
Db |||||
QY 601 ACCTTCAAGTCCCCCAGCGAGTATGCCCCAGGGGAGTACACTTACCCAGCCAGTG 660
Db |||||
QY 661 TCCACAGATCCCAACACACGCGCAACTCCAGAACCCAGCACTGCTCCAGCACCTCC 720
Db |||||
QY 661 TCCACAGATCCCAACACACGCGCAACTCCAGAACCCAGCACTGCTCCAGCACCTCC 720
Db |||||
QY 721 TTCCTGCTCCCAATGGGCCCCAGCCCCCAGCTAGAGG 758
Db |||||
QY 721 TTCCTGCTCCCAATGGGCCCCAGCCCCCAGCTAGAGG 758
Db |||||
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RESULT 10

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US-10-410-930-31
; Sequence 31, Application US/10410930
; Publication No. US20040115168A1
; GENERAL INFORMATION:
; APPLICANT: Neose Technologies, Inc.
; APPLICANT: DeFrees, Shawn
; APPLICANT: Zopf, David
; APPLICANT: Bayer, Robert
; APPLICANT: Hakes, David
; APPLICANT: Chen, Xi
; APPLICANT: Bove, Caryn
; TITLE OF INVENTION: INTERFERON BETA: REMODELING AND GLYCOCONJUGATION OF INTERFERON
; FILE REFERENCE: 040853-01-5056
; CURRENT APPLICATION NUMBER: US/10/410,930
```

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, CURRENT FILING DATE: 2003-04-09
, PRIOR APPLICATION NUMBER: US 60/328,523
, PRIOR FILING DATE: 2001-10-10
, PRIOR APPLICATION NUMBER: US 60/344,692
, PRIOR FILING DATE: 2001-10-19
, PRIOR APPLICATION NUMBER: US 60/387,292
, PRIOR FILING DATE: 2002-06-07
, PRIOR APPLICATION NUMBER: US 60/391,777
, PRIOR FILING DATE: 2002-06-25
, PRIOR APPLICATION NUMBER: US 60/396,594
, PRIOR FILING DATE: 2002-07-17
, PRIOR APPLICATION NUMBER: US 60/404,249
, PRIOR FILING DATE: 2002-08-16
, PRIOR APPLICATION NUMBER: US 60/407,527
, PRIOR FILING DATE: 2002-08-28
, NUMBER OF SEQ ID NOS: 75
, SOFTWARE: PatentIn version 3.2
, SEQ ID NO 31
, LENGTH: 1471
, TYPE: DNA
, ORGANISM: Homo sapiens
US-10-410-930-31

```

Query Match	50.1%	Score 754.8	DB 18	Length 1471
Best Local Similarity	99.7%	Prod. No. 2.6e-201		
Matches 756	Conservative 0	Mismatches 2	Indels 0	Gaps 0
Qy	1	ATGCGCCCGCTCGCGCTCTGGCGCGCGCTGCGACTGGAGCTGGAGCTCTGGGCTCGCGCG	60	
Db	1	ATGCGCCCGCTCGCGCTCTGGCGCGCGCTGCGACTGGAGCTCTGGGCTCGCGCG	60	
Qy	61	CACGCTTGGCCCGCCAGTGGCATTTACACCTACGCCCGGAGCCCGGAGCAGACATGC	120	
Db	61	CACGCTTGGCCCGCCAGTGGCATTTACACCTACGCCCGGAGCCCGGAGCAGACATGC	120	
Qy	121	CGGCTCAGAGAATACTATGACACAGACTCAGATGTGCTGCAGAAATGTCGCCCGGC	180	
Db	121	CGGCTCAGAGAATACTATGACACAGACTCAGATGTGCTGCAGAAATGTCGCCCGGC	180	
Qy	181	CAACATGCAAAAGTCTTCTGTACCAAGACTCGGACACCGTGTGTGACTCTCTGTGAGAC	240	
Db	181	CAACATGCAAAAGTCTTCTGTACCAAGACTCGGACACCGTGTGTGACTCTCTGTGAGAC	240	
Qy	241	AGCATATACCCAGCTCTGGAATGGGTTCGAGTCTTGAAGTGTGCTGCTGGTGGTCCCGCTGT	300	
Db	241	AGCATATACCCAGCTCTGGAATGGGTTCGAGTCTTGAAGTGTGCTGCTGGTGGTCCCGCTGT	300	
Qy	301	AGCTCTGACAGGTGGAACTCAAGCCGTGCACTCGGGAACAGAACCGCATCTGCACCTGC	360	
Db	301	AGCTCTGACAGGTGGAACTCAAGCCGTGCACTCGGGAACAGAACCGCATCTGCACCTGC	360	
Qy	361	AGGCCCGGCTGTACTCGCGCTCTGAGCAAGCAGGAGGGTCCCGCTGTGGCGCGCGTG	420	
Db	361	AGGCCCGGCTGTACTCGCGCTCTGAGCAAGCAGGAGGGTCCCGCTGTGGCGCGCGTG	420	
Qy	421	CGCAAGTGC CGCGCGGCTTGGCGGTGCGCAGACAGGAACTGAAATCAGACGTGTGT	480	
Db	421	CGCAAGTGC CGCGCGGCTTGGCGGTGCGCAGACAGGAACTGAAATCAGACGTGTGT	480	
Qy	481	TGCAAGCCCTGTGCCCCGGGACGTTCTCCACACGACTTATCCACGGATATTTCAGG	540	
Db	481	TGCAAGCCCTGTGCCCCGGGACGTTCTCCACACGACTTATCCACGGATATTTCAGG	540	
Qy	541	CCCCACAGATCTGTAAAGTGGTGGCCATCCCTGGGAATCAAGCATGGATGCAGTCTGC	600	
Db	541	CCCCACAGATCTGTAAAGTGGTGGCCATCCCTGGGAATCAAGCATGGATGCAGTCTGC	600	
Qy	601	ACGTCCACGTCCTCCACCCGAGTATGCCCCAGGGGAGTACACTTACCCCGACGATG	660	
Db	601	ACGTCCAGTCTCCACCCGAGTATGCCCCAGGGGAGTACACTTACCCCGACGATG	660	
Qy	661	TCCAACGATCCCAACACACGACGCAACTCCAGAACCCAGCATGCTCTCCAGCACCTCC	720	

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Db      661  TCACACGATCCCAACACACACGACGCAACTCCAGAACCCAGCACTGCTCCAGCACCTCC  72
Qy      721  TTCTGTCTCCAAATGGGCCCCCAGCCCCCCCAGCTAGAG  758
Db      721  TTCTGTCTCCAAATGGGCCCCCAGCCCCCCCAGCTGAAG  758

RESULT 11
US-10-410-997-31
; Sequence 31, Application US/10410997
; Publication No. US20040126838A1
; GENERAL INFORMATION:
; APPLICANT: Neose Technologies, Inc.
; APPLICANT: DeFrees, Shawn
; APPLICANT: Zopf, David
; APPLICANT: Bayer, Robert
; APPLICANT: Hakes, David
; APPLICANT: Chen, Xi
; APPLICANT: Bowe, Caryn
; TITLE OF INVENTION: FOLLICLE STIMULATING HORMONE: REMODELING AND GLYCOCONU
; TITLE OF INVENTION: FSH
; FILE REFERENCE: 040853-01-5059
; CURRENT APPLICATION NUMBER: US/10/410,997
; CURRENT FILING DATE: 2003-04-09
; PRIOR APPLICATION NUMBER: US 60/328,523
; PRIOR FILING DATE: 2001-10-10
; PRIOR APPLICATION NUMBER: US 60/344,692
; PRIOR FILING DATE: 2001-10-19
; PRIOR APPLICATION NUMBER: US 60/387,292
; PRIOR FILING DATE: 2002-06-07
; PRIOR APPLICATION NUMBER: US 60/391,777
; PRIOR FILING DATE: 2002-06-25
; PRIOR APPLICATION NUMBER: US 60/396,594
; PRIOR FILING DATE: 2002-07-17
; PRIOR APPLICATION NUMBER: US 60/404,249
; PRIOR FILING DATE: 2002-08-16
; PRIOR APPLICATION NUMBER: US 60/407,527
; PRIOR FILING DATE: 2002-08-28
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 31
; LENGTH: 1471
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-410-997-31

```

Query Match	50.1%;	Score 754.8;	DB 18;	Length 1471;
Best Local Similarity	99.7%;	Pred. No. 2.6e-201;		
Matches 756;	Conservative 0;	Mismatches 2;	Indels 0;	Gaps 0;
Qy	1	ATGCGCGCCGTCGCGCTCGCGCGCGCTCGCGCTCGGACTGAGACTCTGGGCTGCGGCG	60	
Db	1	ATGCGCGCCGTCGCGCTCGCGCGCGCTCGCGCTCGGACTGAGACTCTGGGCTGCGGCG	60	
Qy	61	CAGCCTTCCCGCCCAAGTGGCAATTACACCTTACGCCCGGAGCCGGAGACACATGC	120	
Db	61	CAGCCTTCCCGCCCAAGTGGCAATTACACCTTACGCCCGGAGCCGGAGACACATGC	120	
Qy	121	CGGCTCAGAGAACTACTATGACCAGACAGCTCAGATGTGCTGCAGCAAAATGCTCCGCCGGC	180	
Db	121	CGGCTCAGAGAACTACTATGACCAGACAGCTCAGATGTGCTGCAGCAAAATGCTCCGCCGGC	180	
Qy	181	CAACATGCAAAAGTCTTCTGTACCAAGACCTCGGACACCGGTGTGTGACTCTCTGTGAGGAC	240	
Db	181	CAACATGCAAAAGTCTTCTGTACCAAGACCTCGGACACCGGTGTGTGACTCTCTGTGAGGAC	240	
Qy	241	AGCACATACACCCAGCTCTGGAACTGGGTTCCCGAGTGTCTTGAGCTGTGGCTCCCGCTGT	300	
Db	241	AGCACATACACCCAGCTCTGGAACTGGGTTCCCGAGTGTCTTGAGCTGTGGCTCCCGCTGT	300	
Qy	301	AGCTCTGACACAGGTGGAAACTCAAGCCTGCNCTCGGAAACAGAACCCGATCTGCACCTGC	360	
Db	301	AGCTCTGACACAGGTGGAAACTCAAGCCTGCNCTCGGAAACAGAACCCGATCTGCACCTGC	360	


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QY 361 AGCCCGGCTGTAAGCGCTGAGCAAGCAGAGGGGTGCGGCTGTGCGCCGCTG 420
Db 361 AGCCCGGCTGTAAGCGCTGAGCAAGCAGAGGGGTGCGGCTGTGCGCCGCTG 420
QY 421 CGAAGTCCCGCCGGGCTTCGGGCTGCGCCAGAGCCAGGAACTGAAACATCAGACGTGGTG 480
Db 421 CGAAGTCCCGCCGGGCTTCGGGCTGCGCCAGAGCCAGGAACTGAAACATCAGACGTGGTG 480
QY 481 TGCAAGCCCTGTGCCCCGGGACGTTCTCCAAACAGACTTCATCCACGGATATTGCAAG 540
Db 481 TGCAAGCCCTGTGCCCCGGGACGTTCTCCAAACAGACTTCATCCACGGATATTGCAAG 540
QY 541 CCCACACAGATCTGTAAGCTGGTGGCCATCCCTGGGAATGCAAGATGGATGCACTTGC 600
Db 541 CCCACACAGATCTGTAAGCTGGTGGCCATCCCTGGGAATGCAAGATGGATGCACTTGC 600
QY 601 AGCTCCAGTCCCCACCCGAGTATGCCCCAGGGGAGTACACTTACCCAGCCAGTG 660
Db 601 AGCTCCAGTCCCCACCCGAGTATGCCCCAGGGGAGTACACTTACCCAGCCAGTG 660
QY 661 TCCACAGATCCCAACACACGAGCCAACTCCAGAACCCAGCATGTCTCCAAAGCACTCC 720
Db 661 TCCACAGATCCCAACACACGAGCCAACTCCAGAACCCAGCATGTCTCCAAAGCACTCC 720
QY 721 TTCTGTCTCCCAATGGGCCCCAGCCCCCAGCTAGAGG 758
Db 721 TTCTGTCTCCCAATGGGCCCCAGCCCCCAGCTAGAGG 758
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RESULT 12

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US-10-012-31
; Sequence 31, Application US/10411012
; Publication No. US20040132640A1
; GENERAL INFORMATION:
; APPLICANT: Neose Technologies, Inc.
; APPLICANT: DeFrees, Shawn
; APPLICANT: Zopf, David
; APPLICANT: Bayer, Robert
; APPLICANT: Hakes, David
; APPLICANT: Chen, Xi
; APPLICANT: Bove, Caryne
; TITLE OF INVENTION: GLYCOPEGYLATION METHODS AND PROTEINS/PEPTIDES PRODUCED BY THE
; FILE REFERENCE: 040853-01-5051
; CURRENT APPLICATION NUMBER: US/10/411,012
; PRIOR FILING DATE: 2003-04-09
; PRIOR APPLICATION NUMBER: US 60/328,523
; PRIOR FILING DATE: 2001-10-10
; PRIOR APPLICATION NUMBER: US 60/344,692
; PRIOR FILING DATE: 2001-10-19
; PRIOR APPLICATION NUMBER: US 60/387,292
; PRIOR FILING DATE: 2002-06-07
; PRIOR APPLICATION NUMBER: US 60/391,777
; PRIOR FILING DATE: 2002-06-25
; PRIOR APPLICATION NUMBER: US 60/396,594
; PRIOR FILING DATE: 2002-07-17
; PRIOR APPLICATION NUMBER: US 60/404,249
; PRIOR FILING DATE: 2002-08-16
; PRIOR APPLICATION NUMBER: US 60/407,527
; PRIOR FILING DATE: 2002-08-28
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 31
; LENGTH: 1471
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-411-012-31
```

```
Query Match 50.1%; Score 754.8; DB 18; Length 1471;
Best Local Similarity 99.7%; Pred. No. 2.6e-201;
Matches 756; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

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QY 1 ATGGCGCCGCTGCGGCTGCGCGCTGCGAGCTGAGAGCTCTGGGCTGCGGCG 60
Db 1 ATGGCGCCGCTGCGGCTGCGGCTGCGAGCTGAGAGCTCTGGGCTGCGGCG 60
QY 61 CACGCTTGGCCCGCCAGGTGGCATTTACACCCCTACGCCCGCGGAGCCCGGAGCACATGC 120
Db 61 CACGCTTGGCCCGCCAGGTGGCATTTACACCCCTACGCCCGCGGAGCCCGGAGCACATGC 120
QY 121 CGGCTCAGAGAACTATGACACAGAGCTCAGATGTGTGTCAGCAAAATGTCGCGGCG 180
Db 121 CGGCTCAGAGAACTATGACACAGAGCTCAGATGTGTGTCAGCAAAATGTCGCGGCG 180
QY 181 CAACATCAAAAGTCTTCTGTACCAAGCTTCGACACCCGCTGTGACTCTCTGTAGGAC 240
Db 181 CAACATCAAAAGTCTTCTGTACCAAGCTTCGACACCCGCTGTGACTCTCTGTAGGAC 240
QY 241 AGCATAACACCCAGCTCTGGAACTGGGTTCGCCAGTGTGAGCTGTGGCTCCCGCTGT 300
Db 241 AGCATAACACCCAGCTCTGGAACTGGGTTCGCCAGTGTGAGCTGTGGCTCCCGCTGT 300
QY 301 AGCTCTGACCAAGTGGAACTCAAGCCTGCATCGGGAACAGAACCCGATCTGCACCTGC 360
Db 301 AGCTCTGACCAAGTGGAACTCAAGCCTGCATCGGGAACAGAACCCGATCTGCACCTGC 360
QY 361 AGGCGCGCTGTGACTGCGGCTGAGCAAGCAGAGGGGTGCGGCTGTGCGCGCGCTG 420
Db 361 AGGCGCGCTGTGACTGCGGCTGAGCAAGCAGAGGGGTGCGGCTGTGCGCGCGCTG 420
QY 421 CGCAAGTCCCGCCCGGCTTTCGGGTCGCGCAGACCCAGGAACTGAAACATCAGAGCTGGTG 480
Db 421 CGCAAGTCCCGCCCGGCTTTCGGGTCGCGCAGACCCAGGAACTGAAACATCAGAGCTGGTG 480
QY 481 TGAAGCCCTGTGCGCGGGGAGCTTCTCNAACAGACTTCATCCAGGATATTGTCAGG 540
Db 481 TGAAGCCCTGTGCGCGGGGAGCTTCTCNAACAGACTTCATCCAGGATATTGTCAGG 540
QY 541 CCCACACAGATCTGTAAGCTGGTGGCCATCCCTGGGAATGCAAGCATGGATGCACTTGC 600
Db 541 CCCACACAGATCTGTAAGCTGGTGGCCATCCCTGGGAATGCAAGCATGGATGCACTTGC 600
QY 601 ACGTCCACGTCCCCACCCCGAGTATGGCCCCAGGGGAGTACACTTACCCAGCCAGTG 660
Db 601 ACGTCCACGTCCCCACCCCGAGTATGGCCCCAGGGGAGTACACTTACCCAGCCAGTG 660
QY 661 TCCACAGATCCCAACACACAGCAGCCAACTTCCAGAACCCAGCATGTCTCCAAAGCACTCC 720
Db 661 TCCACAGATCCCAACACACAGCAGCCAACTTCCAGAACCCAGCATGTCTCCAAAGCACTCC 720
QY 721 TTCTGTCTCCCAATGGGCCCCAGCCCCCAGCTAGAGG 758
Db 721 TTCTGTCTCCCAATGGGCCCCAGCCCCCAGCTAGAGG 758
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RESULT 13
US-10-287-994-31
; Sequence 31, Application US/10287994
; Publication No. US20040137557A1
; GENERAL INFORMATION:
; APPLICANT: Neose Technologies, Inc.
; APPLICANT: DeFrees, Shawn
; APPLICANT: Zopf, David
; APPLICANT: Bayer, Robert
; APPLICANT: Hakes, Caryn
; APPLICANT: Bove, David
; APPLICANT: Chen, Xi
; TITLE OF INVENTION: REMODELING AND GLYCOCONJUGATION OF PEPTIDES
; FILE REFERENCE: 040853-01-5052-00
; CURRENT APPLICATION NUMBER: US/10/287,994
; CURRENT FILING DATE: 2002-11-05
; PRIOR APPLICATION NUMBER: US 60/328,523
; PRIOR FILING DATE: 2001-10-10
; PRIOR APPLICATION NUMBER: US 60/344,692
; PRIOR FILING DATE: 2001-10-19


```

; PRIORITY APPLICATION NUMBER: US 60/387,292
; PRIORITY FILING DATE: 2002-06-07
; PRIORITY APPLICATION NUMBER: US 60/391,777
; PRIORITY FILING DATE: 2002-06-25
; PRIORITY APPLICATION NUMBER: US 60/396,594
; PRIORITY FILING DATE: 2002-07-17
; PRIORITY APPLICATION NUMBER: US 60/404,249
; PRIORITY FILING DATE: 2002-08-16
; PRIORITY APPLICATION NUMBER: US 60/407,527
; PRIORITY FILING DATE: 2002-08-28
; NUMBER OF SEQ ID NOS: 62
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 31
; LENGTH: 1471
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-287-994-31

```

Query Match	50.1%;	Score 754.8;	DB 18;	Length 1471;
Best Local Similarity	99.7%;	Pred. No. 2.6e-201;		
Matches 756;	Conservative 0;	Mismatches 20;	Indels 0;	Gaps 0;
Qy	1	ATGCGCCCGTCTGCGGCTGCGCGCGCTGCGCGCTGCGAGCTCTGGGCTCGCGCG	60	
Db	1	ATGCGCCCGTCTGCGGCTGCGCGCGCTGCGCGCTGCGAGCTCTGGGCTCGCGCG	60	
Qy	61	CAGCCTTGCCCGCCAGGTGGCAATTACACCTTACGCCCGGAGCCCGGAGACATGC	120	
Db	61	CAGCCTTGCCCGCCAGGTGGCAATTACACCTTACGCCCGGAGCCCGGAGACATGC	120	
Qy	121	CGGCTCAGAGTAATCTATGACCAGACAGCTCAGATGTGCTGCAGCAAAATGCTCGCGGGC	180	
Db	121	CGGCTCAGAGTAATCTATGACCAGACAGCTCAGATGTGCTGCAGCAAAATGCTCGCGGGC	180	
Qy	181	CAACATGCAAAAGTCTTCTGTACCAAGACCTCGGACACCGTGTGTGACTCTCTGTAGGAC	240	
Db	181	CAACATGCAAAAGTCTTCTGTACCAAGACCTCGGACACCGTGTGTGACTCTCTGTAGGAC	240	
Qy	241	AGCATAFACACCAAGCTCTGGAACCTGGGTTCGCGAGTCTGTTAGCTGTGGCTCCCGTGT	300	
Db	241	AGCATAFACACCAAGCTCTGGAACCTGGGTTCGCGAGTCTGTTAGCTGTGGCTCCCGTGT	300	
Qy	301	AGTCTTGACAGGTGGAAACTCAAGCTGCACTCGGGAACAGAACCGCATCTGCACCTGC	360	
Db	301	AGTCTTGACAGGTGGAAACTCAAGCTGCACTCGGGAACAGAACCGCATCTGCACCTGC	360	
Qy	361	AGGCCCGGCTGTACTCGCGCTGAGCAAGCAGAGGGGTGCGCGCTGTGCGCGCGCTG	420	
Db	361	AGGCCCGGCTGTACTCGCGCTGAGCAAGCAGAGGGGTGCGCGCTGTGCGCGCGCTG	420	
Qy	421	CGCAAGTGCCTCCCGGCTTCCGGCTGGCGAGACAGAGAACTGAAACATCAGAGCTGGTG	480	
Db	421	CGCAAGTGCCTCCCGGCTTCCGGCTGGCGAGACAGAGAACTGAAACATCAGAGCTGGTG	480	
Qy	481	TGCAAGCCCTGTGCGCCGGGAGCTTCTCAAACAGACTTTCATCCAGGATATTTGAGG	540	
Db	481	TGCAAGCCCTGTGCGCCGGGAGCTTCTCAAACAGACTTTCATCCAGGATATTTGAGG	540	
Qy	541	CCCCACAGATCTGTAAAGTGGTGGCCATCCCTGGGAATCAAGCATGGATGCAAGTCTGC	600	
Db	541	CCCCACAGATCTGTAAAGTGGTGGCCATCCCTGGGAATCAAGCATGGATGCAAGTCTGC	600	
Qy	601	AGTTCAGGTCCCCCACCGGAGTATGGCCCCCAGGGGAGTACACTTACCCAGCCAGTG	660	
Db	601	AGTTCAGGTCCCCCACCGGAGTATGGCCCCCAGGGGAGTACACTTACCCAGCCAGTG	660	
Qy	661	TCCACAGATCCCCAACACAGCGACGCAACTCCAGAACCCAGCACTGCTCAAAGCACCTCC	720	
Db	661	TCCACAGATCCCCAACACAGCGACGCAACTCCAGAACCCAGCACTGCTCAAAGCACCTCC	720	
Qy	721	TTCTGTGTCGAATGGGCCCCAGCCCCCAGCTAGAGG	758	
Db	721	TTCTGTGTCGAATGGGCCCCAGCCCCCAGCTAGAGG	758	

RESULT 14
US-10-410-913-31
; Sequence 31, Application US/10410913
; Publication No. US20040142856A1
; GENERAL INFORMATION:
; APPLICANT: Neose Technologies, Inc.
; APPLICANT: DeFrees, Shawn
; APPLICANT: Zopf, David
; APPLICANT: Bayer, Robert
; APPLICANT: Hakes, David
; APPLICANT: Chen, Xi
; APPLICANT: Bowe, Caryn
; TITLE OF INVENTION: GLYCOCONJUGATION METHODS AND PROTEINS/PEPTIDES PRODUCED BY THE
; TITLE OF INVENTION: METHODS
; FILE REFERENCE: 040853-01-5081
; CURRENT APPLICATION NUMBER: US/10/410,913
; CURRENT FILING DATE: 2003-04-09
; PRIOR APPLICATION NUMBER: US 60/328,523
; PRIOR FILING DATE: 2001-10-10
; PRIOR APPLICATION NUMBER: US 60/344,692
; PRIOR FILING DATE: 2001-10-19
; PRIOR APPLICATION NUMBER: US 60/387,292
; PRIOR FILING DATE: 2002-06-07
; PRIOR APPLICATION NUMBER: US 60/391,777
; PRIOR FILING DATE: 2002-06-25
; PRIOR APPLICATION NUMBER: US 60/396,594
; PRIOR FILING DATE: 2002-07-17
; PRIOR APPLICATION NUMBER: US 60/404,249
; PRIOR FILING DATE: 2002-08-16
; PRIOR APPLICATION NUMBER: US 60/407,527
; PRIOR FILING DATE: 2002-08-28
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 31
; LENGTH: 1471
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-410-913-31

Query Match	50.1%	Score 754.8	DB 18	Length 1471
Best Local Similarity	99.7%	Pred. No. 2.6e-201		
Matches 756	Conservative 0	Mismatches 2	Indels 0	Gaps 0
Qy	1	ATGCGCGCGGTCTGCGCGCGCTGCGCGCTGCGAGCTCTGGGCTTGGCGCGCGG	60	
Db	1			
Qy	61	CAGCGCTTGCCGCCCGAGTGGCATTTACACCTTACGCCCGGAGCCGGAGACACATGC	120	
Db	61	CAGCGCTTGCCGCCCGAGTGGCATTTACACCTTACGCCCGGAGCCGGAGACACATGC	120	
Qy	121	CGGCTCAGAGAACTATGACACGACAGCTCAGATGTGCTGCACGAATGCTCCGCCGGC	180	
Db	121	CGGCTCAGAGAACTATGACACGACAGCTCAGATGTGCTGCACGAATGCTCCGCCGGC	180	
Qy	181	CAACATGCAAAAGTCTTCTGTACCAAGACCTCGGACACCGTGTGTGACTCTCTGTGAGGAC	240	
Db	181	CAACATGCAAAAGTCTTCTGTACCAAGACCTCGGACACCGTGTGTGACTCTCTGTGAGGAC	240	
Qy	241	AGCACATACACCGAGTCTGGAACTGGGTTCCCGAGTGTCTTGAGCTGTGGCTCCCGCTGT	300	
Db	241	AGCACATACACCGAGTCTGGAACTGGGTTCCCGAGTGTCTTGAGCTGTGGCTCCCGCTGT	300	
Qy	301	AGCTCTGACCAGGTGGAAATCAAGCGCTGCACCTCGGGAAACAGAACCGCATCTGCACCTGC	360	
Db	301	AGCTCTGACCAGGTGGAAATCAAGCGCTGCACCTCGGGAAACAGAACCGCATCTGCACCTGC	360	
Qy	361	AGGCGCGGCTGGTACTGCGCGCTGAGCAAGCAGGAGGGGTCCCGGCTGTGCGCGCGCGTG	420	
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Db |||||||
Qy 481 TGCAGCCCTGTGCCCGGGGACGTTCTTCCAAACAGCACTTCATCCACGGATATTTCAGG 540
Db |||||||
Qy 481 TGCAGCCCTGTGCCCGGGGACGTTCTTCCAAACAGCACTTCATCCACGGATATTTCAGG 540
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Db |||||||
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Db |||||||
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Db |||||||
Qy 661 TCCACAGATCCCAACACACAGCAGCAACTCCAGAACCCAGCACTGCTTCCAGCACCTCC 720
Db |||||||
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Qy 721 TTCTGTCTCCCAATGGGGCCCGAGCCCGCCAGCTAGAGG 758
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Db |||||||
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RESULT 15

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US-10-410-980-31
; Sequence 31, Application US/10410980
; Publication No. US20050031584A1
; GENERAL INFORMATION:
; APPLICANT: Neose Technologies, Inc.
; APPLICANT: DeFrees, Shawn
; APPLICANT: Zopf, David
; APPLICANT: Bayer, Robert
; APPLICANT: Hakes, David
; APPLICANT: Chen, Xi
; APPLICANT: Bowe, Caryn
; TITLE OF INVENTION: INTERLEUKIN-2: REMODELING AND GLYCOCONJUGATION OF IL-2
; FILE REFERENCE: 040853-01-5066
; CURRENT APPLICATION NUMBER: US/10/410,980
; CURRENT FILING DATE: 2003-04-09
; PRIOR APPLICATION NUMBER: US 60/328,523
; PRIOR FILING DATE: 2001-10-10
; PRIOR APPLICATION NUMBER: US 60/344,692
; PRIOR FILING DATE: 2001-10-19
; PRIOR APPLICATION NUMBER: US 60/387,292
; PRIOR FILING DATE: 2002-06-07
; PRIOR APPLICATION NUMBER: US 60/391,777
; PRIOR FILING DATE: 2002-06-25
; PRIOR APPLICATION NUMBER: US 60/396,594
; PRIOR FILING DATE: 2002-07-17
; PRIOR APPLICATION NUMBER: US 60/404,249
; PRIOR FILING DATE: 2002-08-16
; PRIOR APPLICATION NUMBER: US 60/407,527
; PRIOR FILING DATE: 2002-08-28
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 31
; LENGTH: 1471
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-410-980-31
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Query Match 50.1%; Score 754.8; DB 19; Length 1471;
Best Local Similarity 99.7%; Pred. No. 2.6e-201;
Matches 756; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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Qy 181 CAACATGCAAAAGTCTTCTGTACCAAGACCTTCGGACACCGTGTGTGACTCTCTGTGAGGAC 240
Db |||||||
Qy 181 CAACATGCAAAAGTCTTCTGTACCAAGACCTTCGGACACCGTGTGTGACTCTCTGTGAGGAC 240
Db |||||||
Qy 241 AGCACAATACACCCAGCTCTGGAACTGGGTTCCCGAGTGTGAGCTGTGGCTCCCGCTGT 300
Db |||||||
Qy 241 AGCACAATACACCCAGCTCTGGAACTGGGTTCCCGAGTGTGAGCTGTGGCTCCCGCTGT 300
Db |||||||
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Db |||||||
Qy 361 AGGCCCGGCTGGTACTGCGGCTGAGCAAGCAGAGGGGTGCCGGCTGTGCGCGCGCTG 420
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Db |||||||
Qy 481 TGCAGCCCTGTGCCCGGGGACGTTCTCCAAACAGCACTTCATCCACGGATATTTCAGG 540
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Qy 481 TGCAGCCCTGTGCCCGGGGACGTTCTCCAAACAGCACTTCATCCACGGATATTTCAGG 540
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Qy 541 CCCCACAGATCTGTAAAGTGGTGGCCATCCCTGGGAATGCAAGCATGGATGCACTGTC 600
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Qy 541 CCCCACAGATCTGTAAAGTGGTGGCCATCCCTGGGAATGCAAGCATGGATGCACTGTC 600
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Qy 601 ACGTCCACGTCCCGCCACCCCGAGTATGGCCCGGAGTATGCGCCAGGCGAGTACACTTAC 660
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Qy 601 ACGTCCACGTCCCGCCACCCCGAGTATGCGCCAGGCGAGTACACTTAC 660
Db |||||||
Qy 661 TCCACAGATCCCAACACACAGCAGCCAACTTCAGAAACCGAGCACTGCTCCAGCACCTCC 720
Db |||||||
Qy 661 TCCACAGATCCCAACACACAGCAGCCAACTTCAGAAACCGAGCACTGCTCCAGCACCTCC 720
Db |||||||
Qy 721 TTCTGTCTCCCAATGGGGCCCGAGCCCGCCAGCTAGAGG 758
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Qy 721 TTCTGTCTCCCAATGGGGCCCGAGCCCGCCAGCTAGAGG 758
Db |||||||
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Search completed: June 4, 2005, 19:16:07
Job time : 957 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: June 2, 2005, 20:30:17 ; Search time 141 Seconds
(without alignments)
1228.267 Million cell updates/sec

Title: US-09-285-531a-2

Perfect score: 2802

Sequence: 1 MAPVAVMAALAVGLELWAA.....PSTFLLPMGPPSPAGSTG 501

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1465611 seqs, 345679903 residues

Total number of hits satisfying chosen parameters: 1465611

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*
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- 10: /cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/2/pubpaa/US10D_PUBCOMB.pep.*
- 17: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/2/pubpaa/US11_NEW_PUB.pep.*
- 19: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
- 20: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2674.5	95.4	720	14	US-10-363-427-8
2	2332	83.2	659	14	US-10-363-427-12
3	1427.5	50.9	461	9	US-09-800-909-2
4	1427.5	50.9	461	9	US-09-758-124-2
5	1427.5	50.9	461	9	US-09-800-908-3
6	1427.5	50.9	461	10	US-09-902-176A-50
7	1427.5	50.9	461	10	US-09-902-176A-52
8	1427.5	50.9	461	13	US-10-164-592-3
9	1427.5	50.9	461	14	US-10-252-408-2
10	1427.5	50.9	461	14	US-10-420-785-2
11	1427.5	50.9	461	15	US-10-423-927-2
12	1427.5	50.9	461	15	US-10-411-037-32
13	1427.5	50.9	461	15	US-10-411-026-32

14	1427.5	50.9	461	15	US-10-410-962-32	Sequence 32, Appl
15	1427.5	50.9	461	15	US-10-411-049-32	Sequence 32, Appl
16	1427.5	50.9	461	16	US-10-410-930-32	Sequence 32, Appl
17	1427.5	50.9	461	16	US-10-410-997-32	Sequence 32, Appl
18	1427.5	50.9	461	16	US-10-411-012-32	Sequence 32, Appl
19	1427.5	50.9	461	16	US-10-287-994-32	Sequence 32, Appl
20	1427.5	50.9	461	16	US-10-410-913-32	Sequence 32, Appl
21	1427.5	50.9	461	16	US-10-632-929-3	Sequence 3, Appli
22	1427.5	50.9	461	17	US-10-410-980-32	Sequence 32, Appl
23	1427.5	50.9	461	17	US-10-901-735-1	Sequence 1, Appli
24	1427.5	50.9	461	17	US-10-775-180-152	Sequence 152, App
25	1427.5	50.9	461	17	US-10-775-180-155	Sequence 155, App
26	1427.5	50.9	461	17	US-10-410-897-32	Sequence 32, Appl
27	1427.5	50.9	461	17	US-10-492-261-32	Sequence 32, Appl
28	1427.5	50.7	461	9	US-09-826-212-4	Sequence 4, Appli
29	1421.5	50.7	461	9	US-09-896-096A-17	Sequence 17, Appl
30	1421.5	50.7	461	9	US-09-894-924-17	Sequence 17, Appl
31	1421.5	50.7	461	9	US-09-840-707A-17	Sequence 17, Appl
32	1421.5	50.7	461	9	US-09-935-727-6	Sequence 6, Appli
33	1421.5	50.7	461	10	US-09-902-176A-54	Sequence 54, Appl
34	1421.5	50.7	461	14	US-10-046-433-6	Sequence 6, Appli
35	1421.5	50.7	461	14	US-10-038-557A-17	Sequence 17, Appl
36	1421.5	50.7	461	14	US-10-186-643-4	Sequence 4, Appli
37	1421.5	50.7	461	15	US-10-418-242-6	Sequence 6, Appli
38	1421.5	50.7	461	15	US-10-456-819-17	Sequence 17, Appl
39	1421.5	50.7	461	16	US-10-688-132-17	Sequence 17, Appl
40	1413.5	50.4	450	9	US-09-768-779A-3	Sequence 3, Appli
41	1413.5	50.4	450	14	US-10-291-480-3	Sequence 3, Appli
42	1409	50.3	257	14	US-10-313-852-10	Sequence 10, Appl
43	1409	50.3	257	14	US-10-314-033-10	Sequence 10, Appl
44	1409	50.3	490	14	US-10-363-427-4	Sequence 4, Appli
45	1409	50.3	518	14	US-10-313-852-1	Sequence 1, Appli

ALIGNMENTS

RESULT 1
US-10-363-427-8
; Sequence 8, Application US/10363427
; Publication No. US20030195338A1
; GENERAL INFORMATION:
; APPLICANT: MedGen Inc.
; APPLICANT: CHUNG, Yong Hoon
; APPLICANT: HAN, Ji Woong
; APPLICANT: LEE, Hye Ja
; APPLICANT: CHOI, Eun Yong
; APPLICANT: KIM, Jin Mi
; APPLICANT: YIM, Soo Bin
; TITLE OF INVENTION: Concatametric Immunoadhesion
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/363,427
; CURRENT FILING DATE: 2003-02-28
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: KopatentIn 1.71
; SEQ ID NO 8
; LENGTH: 720
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-363-427-8

Query Match	95.4%	Score	2674.5;	DB	14;	Length	720;
Best Local Similarity	96.0%	Pred. No.	7.8e+149;				
Matches	481;	Conservative	1;	Mismatches	4;	Indels	15;
Gaps	1;						
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Db	1	MAPVAVMAALAVGLELWAAHALPAQVAFTPYAPPEPGSTCRLREYDYDTAQMCCSKSPG	60				
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Db	61	QIAKVFCTKTSDTVCDCSDSTYTLQWNVVPECLSCGSRCSQDVETOACTREQNRICTC	120				

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Db 121 RPYGWCALSKQEGCRLCAPLRCRPGFVARPGTETSDVVKPCAPGTFSTSSDTCR 180
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Db 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQVSTRSQHTOPTPEPSTAPSTS 240
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Db 241 FLLPMGSPPPARGGGGSGN-----ATPYAPBPGSTCRLREYYDQTAQMCCS 285
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Db 286 KCSFGQAKVCTKTSTVCDSCEDSTYTQLMNNVPECLSCGSRCSDDQVETQACTREON 345
Qy 361 RICTCRPGWCALSKQEGCRLCAPLRCRPGFVARPGTETSDVVKPCAPGTFSTSS 420
Db 346 RICTCRPGWCALSKQEGCRLCAPLRCRPGFVARPGTETSDVVKPCAPGTFSTSS 405
Qy 421 TDCRPHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQVSTRSQHTOPTPEPST 480
Db 406 TDCRPHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQVSTRSQHTOPTPEPST 465
Qy 481 APSTSFLLPMGSPPPARGSTG 501
Db 466 APSTSFLLPMGSPPPARGSTG 486

RESULT 2

US-10-363-427-12
; Sequence 12, Application US/10363427
; Publication No. US20030195338A1
; GENERAL INFORMATION:
; APPLICANT: MedexGen Inc.
; APPLICANT: CHUNG, Yong Hoon
; APPLICANT: HAN, Ji Woong
; APPLICANT: LEE, Hye Ja
; APPLICANT: CHOI, Eun Yong
; APPLICANT: KIM, Jin Mi
; APPLICANT: YIM, Soo Bin
; TITLE OF INVENTION: Concatametric Immunoadhesion
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/363,427
; CURRENT FILING DATE: 2003-02-28
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: KopatentIn 1.71
; SEQ ID NO 12
; LENGTH: 659
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-363-427-12

Query Match 83.2%; Score 2332; DB 14; Length 659;
Best Local Similarity 84.4%; Pred. No. 8.1e-129;
Matches 423; Conservative 0; Mismatches 2; Indels 76; Gaps 1;

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Db 225 KCSFGQAKVCTKTSTVCDSCEDSTYTQLMNNVPECLSCGSRCSDDQVETQACTREON 284
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Db 285 RICTCRPGWCALSKQEGCRLCAPLRCRPGFVARPGTETSDVVKPCAPGTFSTSS 344
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Db 345 TDCRPHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQVSTRSQHTOPTPEPST 404
Qy 481 APSTSFLLPMGSPPPARGSTG 501
Db 405 APSTSFLLPMGSPPPARGSTG 425

RESULT 3

US-09-800-909-2
; Sequence 2, Application US/09800909
; Patent No. US20010019833A1
; GENERAL INFORMATION:
; APPLICANT: WALLACH, David
; APPLICANT: BIGDA, Jacek
; APPLICANT: BELETSKY, Igor
; APPLICANT: METT, Igor
; APPLICANT: ENGELMANN, Hartmut
; TITLE OF INVENTION: TNF INHIBITORS
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROWDY AND NEIMARK
; STREET: 419 Seventh Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/800,909
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/476,862
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IL 94039
; FILING DATE: 06-APR-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IL 91229
; FILING DATE: 06-AUG-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IL 90339
; FILING DATE: 18-MAY-1989
; ATTORNEY/AGENT INFORMATION:
; NAME: BROWDY, Roger L.
; REGISTRATION NUMBER: 25,618
; REFERENCE/DOCKET NUMBER: WALLACH=12A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-628-5197
; TELEFAX: 202-737-3528
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 461 amino acids
; TYPE: amino acid
; TOPOLOGY: linear

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; MOLECULE TYPE: protein
; US-09-800-909-2

Query Match      50.9%; Score 1427.5; DB 9; Length 461;
Best Local Similarity 58.6%; Pred. No. 5.3e-76;
Matches 302; Conservative 30; Mismatches 96; Indels 87; Gaps 12;

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Db 1 MAPVAVMAALAVGLLEWAAAHALPAQVAFYAPAPPGSTCRLREYYDQTAQMCCSKCSPG 60

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Db 61 QHAKVCTKTSDDTVCDSCEDSTYTQLNNWVPECLSCGSRSSDDQVETQACTREQNRICTC 120

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Db 121 RPYWCALSKQEGCRLCAPLRCRPGFVGARPGTETSDVVKCPACPGTFSNTTSDICR 180

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Db 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTQPTPEPSTAPSTS 240

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Db 283 STCLREYYDQTAQMCCSKCSPG---QHAKVCTKTSDDTVCDSCEDSTYTQLNNWVPECL 339

Qy 340 SCGSRSSDDQVETQACTREQNRICTCRPGWCALSKQEGCRLCAPLRCRPGFVGARPGT 399
Db 340 SCGSRSSDDQVETQACTREQNRICTCRPGWCALSKQEGCRLCAPLRCRPGFVGARPGT 399

Qy 366 GSSD---SSPGHGTVQNVTCIVNVCSHSSQSSQSSSTMGD---TDSSPSES--PKDE 419
Db 366 GSSD---SSPGHGTVQNVTCIVNVCSHSSQSSQSSSTMGD---TDSSPSES--PKDE 419

Qy 460 HLP---QPVSTRSQHTQPTPEPSTAPSTSFLPLMG 491
Db 460 HLP---QPVSTRSQHTQPTPEPSTAPSTSFLPLMG 491

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Db 420 QVPFSKEECAFRSQ---LETPTLLGSTEKPLPLG 452

RESULT 4
US-09-758-124-2
; Sequence 2, Application US/09758124
; Patent No. US20020006391A1
; GENERAL INFORMATION:
; APPLICANT: SMITH, Craig A.
; APPLICANT: GOODWIN, Raymond G.
; APPLICANT: BECKMANN, M. Patricia
; TITLE OF INVENTION: TUMOR NECROSIS FACTOR-ALPHA AND -BETA RECEPTORS
; FILE REFERENCE: A7895
; CURRENT APPLICATION NUMBER: US/09/758,124
; CURRENT FILING DATE: 2001-01-12
; PRIOR APPLICATION NUMBER: 08/953,268
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 08/555,629
; PRIOR FILING DATE: 1995-11-09
; PRIOR APPLICATION NUMBER: 08/468,453
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: 08/038,765
; PRIOR FILING DATE: 1993-03-13
; PRIOR APPLICATION NUMBER: 07/523,635
; PRIOR FILING DATE: 1990-05-10
; PRIOR APPLICATION NUMBER: 07/421,417
; PRIOR FILING DATE: 1989-10-13
; PRIOR APPLICATION NUMBER: 07/405,370
; PRIOR FILING DATE: 1989-09-11
; PRIOR APPLICATION NUMBER: 07/403,241
; PRIOR FILING DATE: 1989-09-05
; NUMBER OF SEQ ID NOS: 4

; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 461
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-758-124-2

Query Match      50.9%; Score 1427.5; DB 9; Length 461;
Best Local Similarity 58.6%; Pred. No. 5.3e-76;
Matches 302; Conservative 30; Mismatches 96; Indels 87; Gaps 12;

Qy 1 MAPVAVMAALAVGLLEWAAAHALPAQVAFYAPAPPGSTCRLREYYDQTAQMCCSKCSPG 60
Db 1 MAPVAVMAALAVGLLEWAAAHALPAQVAFYAPAPPGSTCRLREYYDQTAQMCCSKCSPG 60

Qy 61 QHAKVCTKTSDDTVCDSCEDSTYTQLNNWVPECLSCGSRSSDDQVETQACTREQNRICTC 120
Db 61 QHAKVCTKTSDDTVCDSCEDSTYTQLNNWVPECLSCGSRSSDDQVETQACTREQNRICTC 120

Qy 121 RPYWCALSKQEGCRLCAPLRCRPGFVGARPGTETSDVVKCPACPGTFSNTTSDICR 180
Db 121 RPYWCALSKQEGCRLCAPLRCRPGFVGARPGTETSDVVKCPACPGTFSNTTSDICR 180

Qy 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTQPTPEPSTAPSTS 240
Db 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTQPTPEPSTAPSTS 240

Qy 241 FLPLMGSPSPARGGGGGGGGGGGSDPAQ-----VAFTPYAPEPG 282
Db 241 FLPLMGSPSPARGGGGGGGGGGGSDPAQ-----VAFTPYAPEPG 282

Qy 283 STCLREYYDQTAQMCCSKCSPG---QHAKVCTKTSDDTVCDSCEDSTYTQLNNWVPECL 339
Db 283 STCLREYYDQTAQMCCSKCSPG---QHAKVCTKTSDDTVCDSCEDSTYTQLNNWVPECL 339

Qy 340 SCGSRSSDDQVETQACTREQNRICTCRPGWCALSKQEGCRLCAPLRCRPGFVGARPGT 399
Db 340 SCGSRSSDDQVETQACTREQNRICTCRPGWCALSKQEGCRLCAPLRCRPGFVGARPGT 399

Qy 366 GSSD---SSPGHGTVQNVTCIVNVCSHSSQSSQSSSTMGD---TDSSPSES--PKDE 419
Db 366 GSSD---SSPGHGTVQNVTCIVNVCSHSSQSSQSSSTMGD---TDSSPSES--PKDE 419

Qy 460 HLP---QPVSTRSQHTQPTPEPSTAPSTSFLPLMG 491
Db 460 HLP---QPVSTRSQHTQPTPEPSTAPSTSFLPLMG 491

Qy 420 QVPFSKEECAFRSQ---LETPTLLGSTEKPLPLG 452
Db 420 QVPFSKEECAFRSQ---LETPTLLGSTEKPLPLG 452

RESULT 5
US-09-800-908-3
; Sequence 3, Application US/09800908
; Patent No. US20020111462A1
; GENERAL INFORMATION:
; APPLICANT: WALLACH, David
; APPLICANT: BIGDA, Jacek
; APPLICANT: BELETSEV, Igor
; APPLICANT: MEYER, Igor
; TITLE OF INVENTION: TNF LIGANDS
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROWDY AND NEIMARK
; STREET: 419 Seventh Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/800,908
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; FILING DATE: 08-Mar-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/477,347
; FILING DATE: <Unknown>
; APPLICATION NUMBER: IL 106271
; FILING DATE: 08-JUL-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Townsend, G. Kevin
; REGISTRATION NUMBER: 34,033
; REFERENCE/DOCKET NUMBER: WALLACH=10
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-628-5197
; TELEFAX: 202-737-3528
; TELEX: 248633
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 461 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-800-908-3

Query Match 50.9%; Score 1427.5; DB 9; Length 461;
Best Local Similarity 58.6%; Pred. No. 5.3e-76;
Matches 302; Conservative 30; Mismatches 96; Indels 87; Gaps 12;

Qy 1 MAPVAVMAALAVGLELWAAAHALPAQVAFTPYAPPGSTCLRREYYDQTAQMCCSKSPG 60
Db 1 MAPVAVMAALAVGLELWAAAHALPAQVAFTPYAPPGSTCLRREYYDQTAQMCCSKSPG 60

Qy 61 QHAKVFCTKSDTVCDSCEDSTYTQLNNWVPECLSCGSRSSDQVETQACTREQNRICTC 120
Db 61 QHAKVFCTKSDTVCDSCEDSTYTQLNNWVPECLSCGSRSSDQVETQACTREQNRICTC 120

Qy 121 RPYWCALSKQEGCRLCAPLRCRPGFVGARPGTETSDVCKPCAPGTFSTSTSDICR 180
Db 121 RPYWCALSKQEGCRLCAPLRCRPGFVGARPGTETSDVCKPCAPGTFSTSTSDICR 180

Qy 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTOPTPEPSTAPSTS 240
Db 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTOPTPEPSTAPSTS 240

Qy 241 FLLPMGSPPARGGGGGGGGGSDPAQ-----VAFTPYAPPG 282
Db 241 FLLPMGSPPAR-----GSTGDFALPVGLVGVVTCVIMTVQKKP- 291

Qy 283 STCLRREYYDQTAQMCCSKSPG---QHAKVFCTKSDTVCDSCEDSTYTQLNNWVPECL 339
Db 292 -LCLQREAKVPHLPADKARGTQGPQQHLLITAPSSSSSSLES----- 333

Qy 340 SCGSRSSDQVETQACTREQNRICTCRPGWCALSKQEGCRLCAPLRCRPGFVGARPGT 399
Db 334 -----SASALDRRAPTRNQPQ----APGVEAS-----GAGEARAST 365

Qy 400 ETSDVCKPCAPGTFSTSTSDICRPHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAV 459
Db 366 GSSD--SSPGHGTVQVNVTCVNVVCSHSSDQSSQASSTMGD--TDSSPSES--PKDE 419

Qy 460 HLP---QPVSTRSQHTOPTPEPSTAPSTSFLPLMG 491
Db 420 QVPFSKECAPRSQ--LETPTLLGSTEEKPLPLG 452

RESULT 6
US-09-902-176A-50
; Sequence 50, Application US/09902176A
; Publication No. US20030099943A1
; GENERAL INFORMATION:
; APPLICANT: Schreiber, Stefan
; APPLICANT: Hampe, Jochen
; APPLICANT: Mascheretti, Silvia

; TITLE OF INVENTION: Diagnostic Use of Polymorphisms in the Gene Coding for
; TITLE OF INVENTION: the TNF Receptor II and Method for Detecting
; TITLE OF INVENTION: No. US20030099943A1-Responders to Anti-TNF-Therapy
; FILE REFERENCE: 25481-P001US
; CURRENT APPLICATION NUMBER: US/09/902,176A
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: EP 00114786.7
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 50
; LENGTH: 461
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-902-176A-50

Query Match 50.9%; Score 1427.5; DB 10; Length 461;
Best Local Similarity 58.6%; Pred. No. 5.3e-76;
Matches 302; Conservative 30; Mismatches 96; Indels 87; Gaps 12;

Qy 1 MAPVAVMAALAVGLELWAAAHALPAQVAFTPYAPPGSTCLRREYYDQTAQMCCSKSPG 60
Db 1 MAPVAVMAALAVGLELWAAAHALPAQVAFTPYAPPGSTCLRREYYDQTAQMCCSKSPG 60

Qy 61 QHAKVFCTKSDTVCDSCEDSTYTQLNNWVPECLSCGSRSSDQVETQACTREQNRICTC 120
Db 61 QHAKVFCTKSDTVCDSCEDSTYTQLNNWVPECLSCGSRSSDQVETQACTREQNRICTC 120

Qy 121 RPYWCALSKQEGCRLCAPLRCRPGFVGARPGTETSDVCKPCAPGTFSTSTSDICR 180
Db 121 RPYWCALSKQEGCRLCAPLRCRPGFVGARPGTETSDVCKPCAPGTFSTSTSDICR 180

Qy 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTOPTPEPSTAPSTS 240
Db 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTOPTPEPSTAPSTS 240

Qy 241 FLLPMGSPPARGGGGGGGGGSDPAQ-----VAFTPYAPPG 282
Db 241 FLLPMGSPPAR-----GSTGDFALPVGLVGVVTCVIMTVQKKP- 291

Qy 283 STCLRREYYDQTAQMCCSKSPG---QHAKVFCTKSDTVCDSCEDSTYTQLNNWVPECL 339
Db 292 -LCLQREAKVPHLPADKARGTQGPQQHLLITAPSSSSSSLES----- 333

Qy 340 SCGSRSSDQVETQACTREQNRICTCRPGWCALSKQEGCRLCAPLRCRPGFVGARPGT 399
Db 334 -----SASALDRRAPTRNQPQ----APGVEAS-----GAGEARAST 365

Qy 400 ETSDVCKPCAPGTFSTSTSDICRPHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAV 459
Db 366 GSSD--SSPGHGTVQVNVTCVNVVCSHSSDQSSQASSTMGD--TDSSPSES--PKDE 419

Qy 460 HLP---QPVSTRSQHTOPTPEPSTAPSTSFLPLMG 491
Db 420 QVPFSKECAPRSQ--LETPTLLGSTEEKPLPLG 452

RESULT 7
US-09-902-176A-52
; Sequence 52, Application US/09902176A
; Publication No. US20030099943A1
; GENERAL INFORMATION:
; APPLICANT: Schreiber, Stefan
; APPLICANT: Hampe, Jochen
; APPLICANT: Mascheretti, Silvia
; TITLE OF INVENTION: Diagnostic Use of Polymorphisms in the Gene Coding for
; TITLE OF INVENTION: the TNF Receptor II and Method for Detecting
; TITLE OF INVENTION: No. US20030099943A1-Responders to Anti-TNF-Therapy
; FILE REFERENCE: 25481-P001US
; CURRENT APPLICATION NUMBER: US/09/902,176A
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: EP 00114786.7
; PRIOR FILING DATE: 2000-07-10

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Best Local Similarity 58.6%; Pred.No. 5.3e-76;
Matches 302; Conservative 30; Mismatches 96; Indels 87; Gaps 12;

QY      1 MAPVAVAAALAGLELWAAAHAHALPAQVAFTPTPAPEPGSTCRLEYDYDQT AQMCCSKCSPG 60
        |||
Db       1 MAPVAVAAALAGLELWAAAHAHALPAQVAFTPTPAPEPGSTCRLEYDYDQT AQMCCSKCSPG 60
        |||

QY      61 QHAKVFCTKTSDTVCDCSDSTVTQLWNWPBCLSCGSRCSDDSVETQA CTREQNRICTC 120
        |||
Db       61 QHAKVFCTKTSDTVCDCSDSTVTQLWNWPBCLSCGSRCSDDSVETQA CTREQNRICTC 120
        |||

QY      121 RCGWCALSKQSGRCRLCAPLRKCRPGFGVARPCTETSDVVCKPCAPGTFSNTTSSDIDICR 180
        |||
Db       121 RCGWCALSKQSGRCRLCAPLRKCRPGFGVARPCTETSDVVCKPCAPGTFSNTTSSDIDICR 180
        |||

QY      181 PHQICNNVAIPGNASMDAVCTSTSPTRSMAPGAHVLPQPVSTRSQHTQTPTEPSTAPSTS 240
        |||
Db       181 PHQICNNVAIPGNASMDAVCTSTSPTRSMAPGAHVLPQPVSTRSQHTQTPTEPSTAPSTS 240
        |||

QY      241 FLLPMGPSPARGGGSGGGGGGGGGSDPAQ-----VAFTPYAPEPG 282
        |||
Db       241 FLLPMGPSPAE-----GSTGDPALPVLGVITVGTLGLLIIGVNVNCVIMTVKKKP-- 291
        |||

QY      283 STCRLEYDYDTAQMCCSKCSPG---QHAKVFCTKTSDTVCDSCEDSTYTQLWNWPBCL 339
        |||
Db       292 -LCLOREAKVPHLPADKARGTGQEQHLILITAPSSSSSLES----- 333
        |||

QY      340 SCGRSCSDSVETQA CTREQNRICTRCPGWCYCALSKQEGRCRLCAPLRKCRPGFGVARPGT 399
        |||
Db       334 -----SASALDRRAPTRNQPO----APGVEAS-----GAGEARAST 365
        |||

QY      400 ETSDDVVCKPCAPGTFSNTTSSDTCRPHOICNVAIPGNASMDAVCTSTSPTRSMAPGAV 459
        |||
Db       366 GSSD--SSPGHGTOVNVTICIVNVCSSSDHSQSQQSASSTMGD--TDSSPSSES--PKDE 419
        |||

QY      460 HLP-----QPVSTRSQHTQTPTEPSTAPSTSFLIPMG 491
        |||
Db       420 QVPFSGKECAFRSQ--LETPTLLGSTEKPIPLG 452
        |||

RESULT 9
US-10-252-408-2
; Sequence 2, Application US/10252408
; Publication NO. US20030082736A1
; GENERAL INFORMATION:
; APPLICANT: SMITH, Craig A.
; TITLE OF INVENTION: TUMOR NECROSIS FACTOR-ALPHA AND BETA RECEPTORS
; FILE REFERENCE: A-71592
; CURRENT APPLICATION NUMBER: US/10/252,408
; PRIOR FILING DATE: 2002-09-24
; PRIOR APPLICATION NUMBER: US/08/406,824
; PRIOR FILING DATE: 1995-03-20
; PRIOR APPLICATION NUMBER: US 08/255,849
; PRIOR FILING DATE: 1994-06-08
; PRIOR APPLICATION NUMBER: US 07/860,710
; PRIOR FILING DATE: 1992-03-30
; PRIOR APPLICATION NUMBER: US 07/523,635
; PRIOR FILING DATE: 1990-05-10
; PRIOR APPLICATION NUMBER: US 07/421,417
; PRIOR FILING DATE: 1989-10-13
; PRIOR APPLICATION NUMBER: US 07/405,370
; PRIOR FILING DATE: 1989-09-11
; PRIOR APPLICATION NUMBER: US 07/403,241
; PRIOR FILING DATE: 1989-09-05
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 461
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-252-408-2
Query Match 50.9%; Score 1427.5; DB 14; Length 461;

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CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/476,862
FILING DATE: 07-JUN-1995
APPLICATION NUMBER: IL 107267
FILING DATE: 12-OCT-1993
APPLICATION NUMBER: IL 94039
FILING DATE: 06-APR-1990
APPLICATION NUMBER: IL 91229
FILING DATE: 06-AUG-1989
APPLICATION NUMBER: IL 90339
FILING DATE: 18-MAY-1989
ATTORNEY/AGENT INFORMATION:
NAME: BROWDY, Roger L.
REGISTRATION NUMBER: 25,618
REFERENCE/DOCKET NUMBER: WALLACH=12A
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-628-5197
TELEFAX: 202-737-3528
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 461 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-10-423-927-2

```

/ GENERAL INFORMATION:
/ APPLICANT: Neose Technologies, Inc.
/ APPLICANT: Defrees, Shawn
/ APPLICANT: Zopf, David
/ APPLICANT: Bayer, Robert
/ APPLICANT: Hakes, David
/ APPLICANT: Chen, Xi
/ APPLICANT: Bowe, Caryn
/ TITLE OF INVENTION: ALPHA GALACTOSIDASE A: REMODELING AND GLYCOCONJUGATION OF ALPHA
/ TITLE OF INVENTION: GALACTOSIDASE A
/ FILE REFERENCE: 040853-01-5082
/ CURRENT APPLICATION NUMBER: US/10/411,037
/ CURRENT FILING DATE: 2003-04-09
/ PRIOR APPLICATION NUMBER: US 60/328,523
/ PRIOR FILING DATE: 2001-10-10
/ PRIOR APPLICATION NUMBER: US 60/344,692
/ PRIOR FILING DATE: 2001-10-19
/ PRIOR APPLICATION NUMBER: US 60/387,292
/ PRIOR FILING DATE: 2002-06-07
/ PRIOR APPLICATION NUMBER: US 60/391,777
/ PRIOR FILING DATE: 2002-06-25
/ PRIOR APPLICATION NUMBER: US 60/396,594
/ PRIOR FILING DATE: 2002-07-17
/ PRIOR APPLICATION NUMBER: US 60/404,249
/ PRIOR FILING DATE: 2002-08-16
/ PRIOR APPLICATION NUMBER: US 60/407,527
/ PRIOR FILING DATE: 2002-08-28
/ NUMBER OF SEQ ID NOS: 75
/ SOFTWARE: PatentIn version 3.2
/ SEQ ID NO 32
/ LENGTH: 461
/ TYPE: PRT
/ ORGANISM: Homo sapiens
/ US-10-411-037-32

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Db 420 QVPFSKECAPRSQ--LETPTLLGSTEKPLPLG 452

RESULT 13

US-10-411-026-32

; Sequence 32, Application US/10411026

; Publication No. US20040063911A1

; GENERAL INFORMATION:

; APPLICANT: Neose Technologies, Inc.

; APPLICANT: Defrees, Shawn

; APPLICANT: Zopf, David

; APPLICANT: Bayer, Robert

; APPLICANT: Hakes, David

; APPLICANT: Chen, Xi

; TITLE OF INVENTION: PROTEIN REMODELING METHODS AND PROTEINS/PEPTIDES PRODUCED BY THE

; TITLE OF INVENTION: METHODS

; FILE REFERENCE: 040853-01-5053

; CURRENT APPLICATION NUMBER: US/10/411,026

; CURRENT FILING DATE: 2003-04-09

; PRIOR APPLICATION NUMBER: US 60/328,523

; PRIOR FILING DATE: 2001-10-10

; PRIOR APPLICATION NUMBER: US 60/344,692

; PRIOR FILING DATE: 2001-10-19

; PRIOR APPLICATION NUMBER: US 60/387,292

; PRIOR FILING DATE: 2002-06-07

; PRIOR APPLICATION NUMBER: US 60/391,777

; PRIOR FILING DATE: 2002-06-25

; PRIOR APPLICATION NUMBER: US 60/396,594

; PRIOR FILING DATE: 2002-07-17

; PRIOR APPLICATION NUMBER: US 60/404,249

; PRIOR FILING DATE: 2002-08-16

; PRIOR APPLICATION NUMBER: US 60/407,527

; PRIOR FILING DATE: 2002-08-28

; NUMBER OF SEQ ID NOS: 75

; SOFTWARE: PatentIn version 3.2

; SEQ ID NO 32

; LENGTH: 461

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-411-026-32

Query Match 50.9%; Score 1427.5; DB 15; Length 461;

Best Local Similarity 58.6%; Pred. No. 5.3e-76;

Matches 302; Conservative 30; Mismatches 96; Indels 87; Gaps 12;

Qy 1 MAPVAVWAALAVGLELWAAHALPAQVAFTPYAPEPGSTCLRREYYDQTAQMCCSKCSPG 60

Db 1 MAPVAVWAALAVGLELWAAHALPAQVAFTPYAPEPGSTCLRREYYDQTAQMCCSKCSPG 60

Qy 61 QHAKVFCTKTSDDTVCDSCEDSTYTQLMNVPECLSCGRSSDDQVETQACTREONRICTC 120

Db 61 QHAKVFCTKTSDDTVCDSCEDSTYTQLMNVPECLSCGRSSDDQVETQACTREONRICTC 120

Qy 121 RPYWCALSKQEGCRLCAPLRCRPGFVGARPGTETSDVCKPCAPGTFSTSTIDICR 180

Db 121 RPYWCALSKQEGCRLCAPLRCRPGFVGARPGTETSDVCKPCAPGTFSTSTIDICR 180

Qy 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTQPTPEPSTAPSTS 240

Db 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTQPTPEPSTAPSTS 240

Qy 241 FLPLMGSPPARGGGGGGGGGGDDPAQ-----VAFTPYAPEPG 282

Db 241 FLPLMGSPPAR-----GSTGDFALPVGLIVGTALGLLLIIGVNVCMVMTQVKKKP- 291

Qy 283 STCLRREYYDQTAQMCCSKCSPG---QHAKVFCTKTSDDTVCDSCEDSTYTQLMNVPECL 339

Db 292 -LCLOREAKVHLPADKARGTQGPQQHLLITAPSSSSSLES----- 333

Qy 340 SCGRSSDDQVETQACTREONRICTCRPGWCALSKQEGCRLCAPLRCRPGFVGARPGT 399

Db 334 -----SASALDRRAPTRNQPQ----APGVBAS-----GAGEARAST 365

Qy 400 ETSDVCKPCAPGTFSTSTIDICRPHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAV 459

Db 366 GSSD--SSPGGHGTQVNVTCIVNVCSDDHSSQSSQASSTWGD--TDSSPSES--PKDE 419

Qy 460 HLP---QPVSTRSQHTQPTPEPSTAPSTSFLPLMG 491

Db 420 QVPFSKECAPRSQ--LETPTLLGSTEKPLPLG 452

RESULT 14

US-10-410-962-32

; Sequence 32, Application US/10410962

; Publication No. US20040077836A1

; GENERAL INFORMATION:

; APPLICANT: Neose Technologies, Inc.

; APPLICANT: Defrees, Shawn

; APPLICANT: Zopf, David

; APPLICANT: Bayer, Robert

; APPLICANT: Hakes, David

; APPLICANT: Chen, Xi

; APPLICANT: Bove, Caryn

; TITLE OF INVENTION: GRANULOCYTE COLONY STIMULATING FACTOR: REMODELING AND

; TITLE OF INVENTION: GLYCOCONJUGATION OF G-CSF

; FILE REFERENCE: 040853-01-5054

; CURRENT APPLICATION NUMBER: US/10/410,962

; CURRENT FILING DATE: 2003-04-09

; PRIOR APPLICATION NUMBER: US 60/328,523

; PRIOR FILING DATE: 2001-10-10

; PRIOR APPLICATION NUMBER: US 60/344,692

; PRIOR FILING DATE: 2001-10-19

; PRIOR APPLICATION NUMBER: US 60/387,292

; PRIOR FILING DATE: 2002-06-07

; PRIOR APPLICATION NUMBER: US 60/391,777

; PRIOR FILING DATE: 2002-06-25

; PRIOR APPLICATION NUMBER: US 60/396,594

; PRIOR FILING DATE: 2002-07-17

; PRIOR APPLICATION NUMBER: US 60/404,249

; PRIOR FILING DATE: 2002-08-16

; PRIOR APPLICATION NUMBER: US 60/407,527

; PRIOR FILING DATE: 2002-08-28

; NUMBER OF SEQ ID NOS: 75

; SOFTWARE: PatentIn version 3.2

; SEQ ID NO 32

; LENGTH: 461

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-410-962-32

Query Match 50.9%; Score 1427.5; DB 15; Length 461;

Best Local Similarity 58.6%; Pred. No. 5.3e-76;

Matches 302; Conservative 30; Mismatches 96; Indels 87; Gaps 12;

Qy 1 MAPVAVWAALAVGLELWAAHALPAQVAFTPYAPEPGSTCLRREYYDQTAQMCCSKCSPG 60

Db 1 MAPVAVWAALAVGLELWAAHALPAQVAFTPYAPEPGSTCLRREYYDQTAQMCCSKCSPG 60

Qy 61 QHAKVFCTKTSDDTVCDSCEDSTYTQLMNVPECLSCGRSSDDQVETQACTREONRICTC 120

Db 61 QHAKVFCTKTSDDTVCDSCEDSTYTQLMNVPECLSCGRSSDDQVETQACTREONRICTC 120

Qy 121 RPYWCALSKQEGCRLCAPLRCRPGFVGARPGTETSDVCKPCAPGTFSTSTIDICR 180

Db 121 RPYWCALSKQEGCRLCAPLRCRPGFVGARPGTETSDVCKPCAPGTFSTSTIDICR 180

Qy 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTQPTPEPSTAPSTS 240

Db 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTQPTPEPSTAPSTS 240

Qy 241 FLPLMGSPPARGGGGGGGGGGDDPAQ-----VAFTPYAPEPG 282

Db 241 FLPLMGSPPAR-----GSTGDFALPVGLIVGTALGLLLIIGVNVCMVMTQVKKKP- 291

Qy 283 STCLRREYYDQTAQMCCSKCSPG---QHAKVFCTKTSDDTVCDSCEDSTYTQLMNVPECL 339

Db 292 -LCLOREAKVPHLPADKARGTQGEQOHLITAPSSSSSLES----- 333
Qy 340 SCGSRSSDOVETQACTREONRICTCRPGWYCALSKQEGCRLCAPLKRCPGFGVARPQT 399
Db 334 -----SASALDREAPTRNQ-----APGVEAS-----GAGEARAST 365
Qy 400 ETSDVCKPCAPGTFSTSTIDICRPHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAV 459
Db 366 GSSD--SSPGHGCTQVNVTCIVNVCSHSSQSSQASSTMGD--TDSPPSES--PKDE 419
Qy 460 HLP---OPVSTRQHTOPTPEPSTAPSTSFLLPMG 491
Db 420 QVPFSKEECAFRSQ--LETPTLLGSTEERKPLPLG 452

RESULT 15
US-10-411-049-32
; Sequence 32, Application US/10411049
; Publication No. US20040082026A1
; GENERAL INFORMATION:
; APPLICANT: Neose Technologies, Inc.
; APPLICANT: DeFrees, Shawn
; APPLICANT: Zopf, David
; APPLICANT: Bayer, Robert
; APPLICANT: Hakes, David
; APPLICANT: Chen, Xi
; APPLICANT: Bove, Caryn
; TITLE OF INVENTION: INTERFERON ALPHA: REMODELING AND GLYCOCONJUGATION OF INTERFERON
; TITLE OF INVENTION: ALPHA
; FILE REFERENCE: 040853-01-5055
; CURRENT APPLICATION NUMBER: US/10/411,049
; CURRENT FILING DATE: 2003-04-09
; PRIOR APPLICATION NUMBER: US 60/328,523
; PRIOR FILING DATE: 2001-10-10
; PRIOR APPLICATION NUMBER: US 60/344,692
; PRIOR FILING DATE: 2001-10-19
; PRIOR APPLICATION NUMBER: US 60/387,292
; PRIOR FILING DATE: 2002-06-07
; PRIOR APPLICATION NUMBER: US 60/391,777
; PRIOR FILING DATE: 2002-06-25
; PRIOR APPLICATION NUMBER: US 60/396,594
; PRIOR FILING DATE: 2002-07-17
; PRIOR APPLICATION NUMBER: US 60/404,249
; PRIOR FILING DATE: 2002-08-16
; PRIOR APPLICATION NUMBER: US 60/407,527
; PRIOR FILING DATE: 2002-08-28
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 32
; LENGTH: 461
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-411-049-32

Query Match 50.9%; Score 1427.5; DB 15; Length 461;
Best Local Similarity 58.6%; Pred. No. 5.3e-76;
Matches 302; Conservative 30; Mismatches 96; Indels 87; Gaps 12;

Qy 1 MAPVAVAAALAVGLELWAAAHALPAQVAFTPYAPGPGTCRLREYVDQTAQMCCSKCSPG 60
Db 1 MAPVAVAAALAVGLELWAAAHALPAQVAFTPYAPGPGTCRLREYVDQTAQMCCSKCSPG 60
Qy 61 QHAKVCTKTSIDTVCDSCEDSTYQLNWNWVPECLSCGSRSSDOVETQACTREONRICTC 120
Db 61 QHAKVCTKTSIDTVCDSCEDSTYQLNWNWVPECLSCGSRSSDOVETQACTREONRICTC 120
Qy 121 RPGWYCALSKQEGCRLCAPLKRCPGFGVARPQTETSDVVKCPGAPGTFSTNTSSSTDICR 180
Db 121 RPGWYCALSKQEGCRLCAPLKRCPGFGVARPQTETSDVVKCPGAPGTFSTNTSSSTDICR 180
Qy 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTOPTPEPSTAPSTS 240

Db 181 PHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTOPTPEPSTAPSTS 240
Qy 241 FLLEPMGPPSPARGGGGGGGGGSDPAQ-----VAFTPYAPEPG 282
Db 241 FLLEPMGPPSPAE-----GSTGDFALPVGLIVGVVTALGLLIIGVVNCVIMTQVKKKP- 291
Qy 283 STCRLREYVDQTAQMCCSKCSPG---QHAKVCTKTSIDTVCDSCEDSTYQLNWNWVPECL 339
Db 292 -LCLOREAKVPHLPADKARGTQGEQOHLITAPSSSSSLES----- 333
Qy 340 SCGSRSSDOVETQACTREONRICTCRPGWYCALSKQEGCRLCAPLKRCPGFGVARPQT 399
Db 334 -----SASALDREAPTRNQ-----APGVEAS-----GAGEARAST 365
Qy 400 ETSDVCKPCAPGTFSTNTSSIDICRPHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAV 459
Db 366 GSSD--SSPGHGCTQVNVTCIVNVCSHSSQSSQASSTMGD--TDSPPSES--PKDE 419
Qy 460 HLP---OPVSTRQHTOPTPEPSTAPSTSFLLPMG 491
Db 420 QVPFSKEECAFRSQ--LETPTLLGSTEERKPLPLG 452

Search completed: June 2, 2005, 20:44:44
Job time : 145 secs

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